

JVC

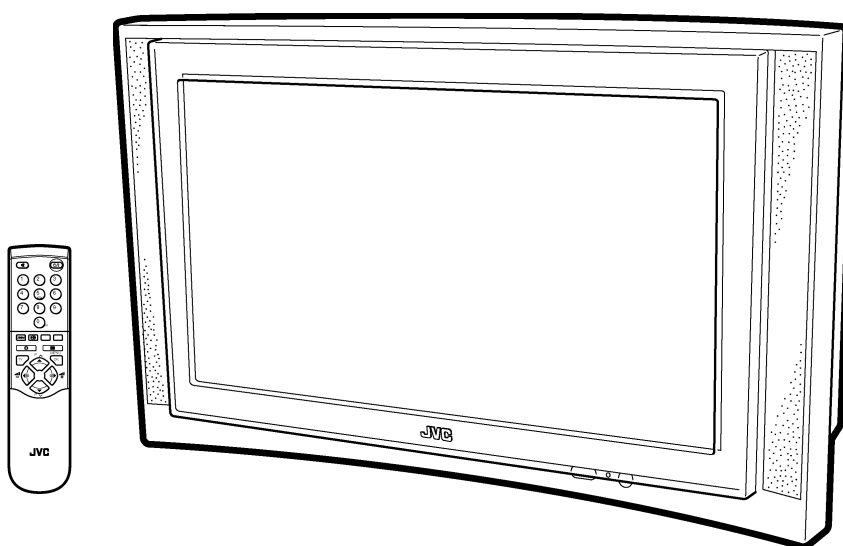
SERVICE MANUAL

COLOUR TELEVISION

AV32L5EKG AV32L5EIG

BASIC CHASSIS

MF



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SPECIFICATIONS

Item	CONTENTS	
	AV32L5EKG	AV32L5EIG
Dimensions (W × H × D)	855mm × 550mm × 568mm	
Mass	54.2kg	
TV RF System	CCIR I	CCIR B/G, I, D/K, L, L'
Colour System	PAL NTSC 3.58 / 4.43 (Play back only)	PAL / SECAM NTSC 3.58 / 4.43 (Play back only)
Sound System	NICAM(I)	A2 (B/G, D/K), NICAM (B/G, I, D/K, L)
Teletext System	Fastext(United Kingdom system) TOP(German system)	Fastext(United Kingdom system) TOP(German system) WST(World standard system)
Receiving Frequency		
VHF	_____	47MHz ~ 470MHz
UHF	470MHz ~ 862MHz	470MHz ~ 862MHz
French CATV	_____	116MHz ~ 172MHz / 220MHz ~ 469MHz
Intermediate Frequency		
VIF Carrier	38.9MHz(I)	38.9MHz(B/G, D/K, I, L), 33.95MHz(L')
SIF Carrier	33.5MHz(6.0MHz : I)	33.4MHz(5.5MHz : B/G) / 32.9MHz(6.0MHz : I)
Colour Sub Carrier		
PAL	4.43MHz	4.43MHz
SECAM	_____	4.40625MHz / 4.25MHz
NTSC	3.58MHz / 4.43MHz	3.58MHz / 4.43MHz
Power Input	AC 220V ~ 240V , 50Hz	
Power Consumption	189W(Maximum), 140W(Average)	
Picture Tube	Visible size : 76cm, Measured diagonally	
High Voltage	31.0kV ^{+1kV} _{-1.5kV} (at zero beam current)	
Speaker	20 × 4cm Oval × 2	
Audio Output	Rated power output : 7.5W+7.5W	
Input / Output terminals		
EXT-1	21-pin Euro connector (SCART socket), Video, Audio L/R, RGB signal input are available TV broadcast output (Video and Audio L/R) are available	
EXT-2	21-pin Euro connector (SCART socket), S-Video, Video, Audio L/R, RGB signal input are available AV selector (TV LINK) function is available	
EXT-3	21-pin Euro connector (SCART socket), Video, Audio L/R, RGB signal input are available	
EXT-4	RCA pin type, S-Video, Video, Audio L/R signal input are available	
Audio output	RCA pin type, Variable audio L/R and sub woofer output are available	
Aerial socket	75 Ω unbalanced, Coaxial	
Headphone jack	Stereo mini jack (φ 3.5mm)	
Remote Control Unit	RM-C56 (AAA/R03 dry cell battery × 2)	

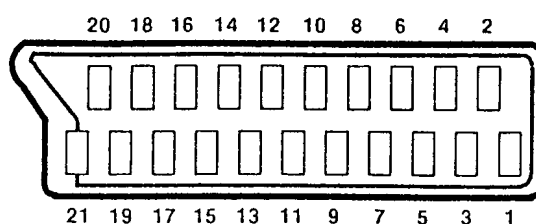
Design & specifications are subject to change without notice.

21-pin Euro connector (SCART socket) : EXT-1 / EXT-2 / EXT-3

(P-P= Peak to Peak, S-W= Sync tip to white peak, B-W= Blanking to white peak)

Pin No.	Signal Designation	Matching Value	EXT-1	EXT-2	EXT-3
1	AUDIO R output	500mVrms(Nominal), Low impedance	○ (TV OUT)	○ (LINE OUT)	NC
2	AUDIO R input	500mVrms(Nominal), High impedance	○	○	○
3	AUDIO L output	500mVrms(Nominal), Low impedance	○ (TV OUT)	○ (LINE OUT)	NC
4	AUDIO GND		○	○	○
5	GND (B)		○	○	○
6	AUDIO L input	500mVrms(Nominal), High impedance	○	○	○
7	B input	700mV _{B-W} , 75Ω	○	○	NC
8	FUNCTION SW (SLOW SW)	Low : 0-3V, High : 8-12V, High impedance	○	○	○
9	GND (G)		○	○	○
10	SCL3		NC	○	NC
11	G input	700mV _{B-W} , 75Ω	○	○	NC
12	SDA3		NC	○	NC
13	GND (R)		○	○	○
14	GND (Y _S)		○	○	NC
15	R / C input	R : 700mV _{B-W} , 75Ω C : 300mV _{P-P} , 75Ω	○ (only R)	○	○ (only C)
16	Ys input	Low : 0 - 0.4, High : 1 - 3V, 75Ω	○	○	NC
17	GND(VIDEO output)		○	○	○
18	GND(VIDEO input)		○	○	○
19	VIDEO output	1V _{P-P} (Negative going sync), 75Ω	○ (TV)	○ (LINE OUT)	NC
20	VIDEO / Y input	1V _{P-P} (Negative going sync), 75Ω	○ (only VIDEO input)	○	○
21	COMMON GND		○	○	○

[Pin assignment]



SAFETY PRECAUTIONS

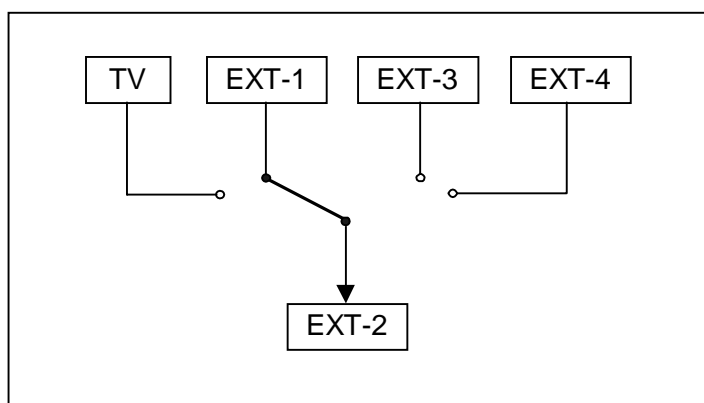
1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessary be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may cause shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubing's, barriers and the like to be separated from live parts, high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

WARNING

1. The equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

FEATURES

- New chassis design enable use of an interactive on screen control.
- The TELETEXT SYSTEM has a built-in FASTEXT (UK system), TOP (German system) and WST (world standard system) system.
- Pure FLAT CRT reproduce fine textured.
- Digi Pure pro : Auto digi pure with motion picture compensation.
- Because this TV unit corresponds to multiplex broadcast, users can enjoy music programs and sporting events with live realism. In addition, BILINGUAL programs can be heard in their original language.
- Built-in ECO (ECONOMY, ECOLOGY) MODE.
In accordance with the brightness in a room, the brightness and/or contrast of the picture can be adjusted automatically to make the optimum picture which is easy on the eye.
- Users can make VCR dubbing of picture and sound by controlling the AV selector to select an optional source at the EXT-2 output shown in figure bellow.



MAIN DIFFERENCE LIST

Δ	Model name	AV32L5EKG	AV32L5EIG
	Part name		
	MAIN PWB	SMF-1901A-U2	SMF-1001A-U2
Δ	RATING LABEL	LC20091-024A-U	LC20091-042A-U
	EURO LABEL	AEM1052-021-E	AEM1052-020-E
Δ	INST BOOK	LCT0909-001A-U	LCT0910-001A-U
	REG. SHEET	AEM3148-001-E	×

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Unplug the power cord.
2. As shown in the Fig. 1, remove the 11 screws marked **A**.
3. Withdraw the rear cover toward you.

REMOVING THE SIDE CONTROL JACK ASSEMBLY

- After removing the rear cover.
1. As shown in the Fig. 1, remove the screw marked **B**.
 2. While slightly raise the side control jack assembly, remove the 2 claws under the side control jack assembly.
 3. As shown in Fig 2, disconnect the connector "SR", "SL", "S", "F" and "K".

REMOVING THE SIDE CONTROL PWB

- After removing the rear cover and side control jack assembly.
1. As shown in Fig.2, remove the 3 claws **C** from back side of the side control jack assembly.
 2. Pull out the SIDE CONTROL PWB.

REMOVING THE CHASSIS

- After removing the rear cover.
1. Slightly raise the both sides of the chassis by hand and remove the two claws under the both sides of the chassis from the front cabinet.
 2. Withdraw the chassis backward.
(If necessary, take off the wire clamp, connectors etc.)

REMOVING THE SPEAKER BOX

- After removing the rear cover.
1. As shown in Fig. 1, remove the 2 screws marked **D**.
- NOTE :** When removing the screws marked **D** of the speaker box assembly, remove the lower side screw first, and then remove the upper one.
2. Remove the 2 screws **E** attaching the speaker box.
 3. Remove the 2 screws **F** attaching the speaker.
 4. Follow the same steps when removing the other hand speaker.

REMOVING THE AV TERMINAL BOARD

- After removing the rear cover.
1. As shown in Fig. 1, remove the 3 screws marked **G**.
 2. As shown in Fig. 3, remove the 2 claws marked **H** under the CHASSIS.
 3. As shown in Fig. 3, remove the AV TERMINAL BOARD slightly in the direction of arrow **I**.

CHECKING THE PW BOARD

To check the back side of the PW Board.

- 1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
- 2) Erect the chassis vertically so that you can easily check the back side of the PW Board.

[CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

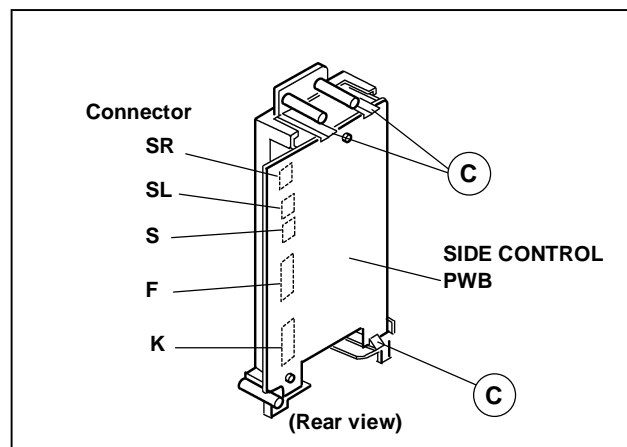


Fig. 2

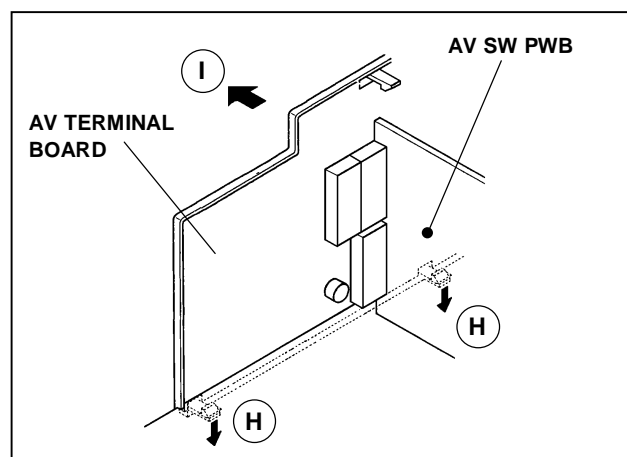


Fig. 3

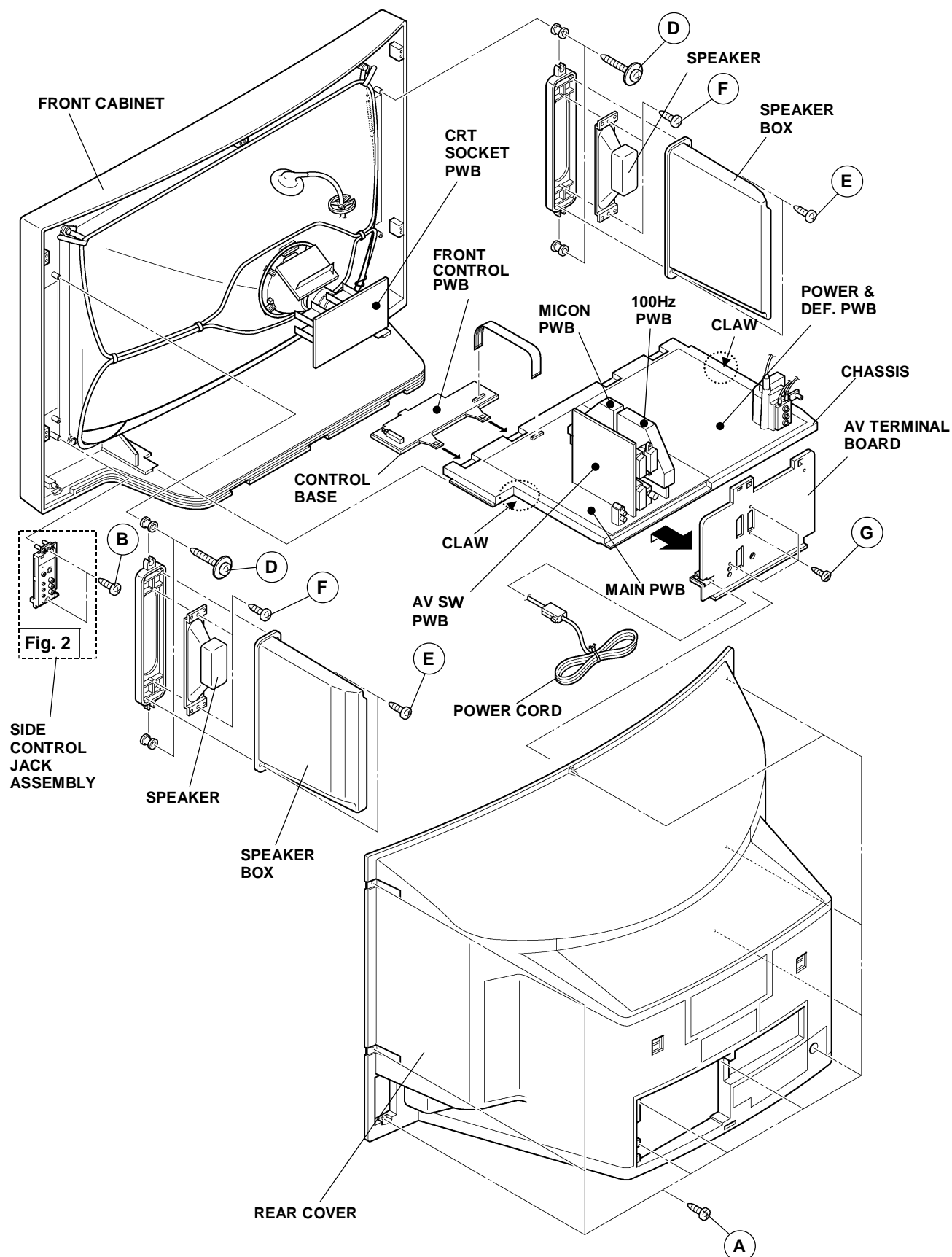


Fig. 1

No.51779

REMOVING THE CRT

- * Replacement of the CRT should be performed by 2 or more persons.
- After removing the cover, chassis etc.,
- 1. Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig.4).
- 2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced well as shown in Fig.5.
- 3. Remove 4 screws marked by arrows with a box type screw driver as shown in Fig.5.
- Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.
- 4. After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig.6.
- The CRT should be assembled according to the opposite sequence of its dismantling steps.
- * The CRT change table should preferably be smaller than the CRT surface, and its height be about 35cm.
- * About CRT Spacer
An appropriate CRT spacer should be used in the corresponding CRT in accordance with the type of the CRT.
When a CRT is replaced, special attention should be paid to this matter.

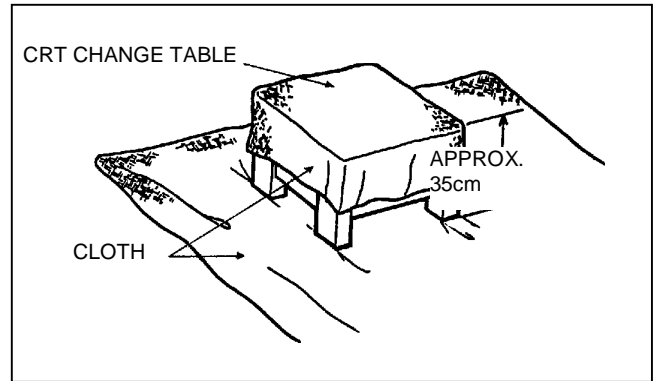


Fig. 4

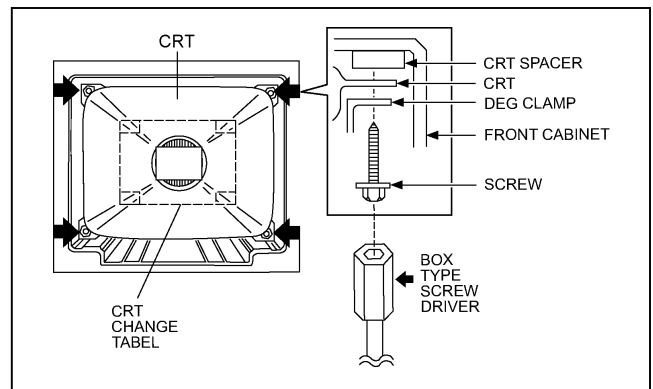


Fig. 5

COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

- Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismantling them, be sure to coat silicon grease for electrical insulation as shown in Fig.7. Wipe around the anode button with clean and dry cloth. (Fig.7) Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases do not stick to the anode button. (Fig.8)

★ Silicon grease product No. KS - 650N

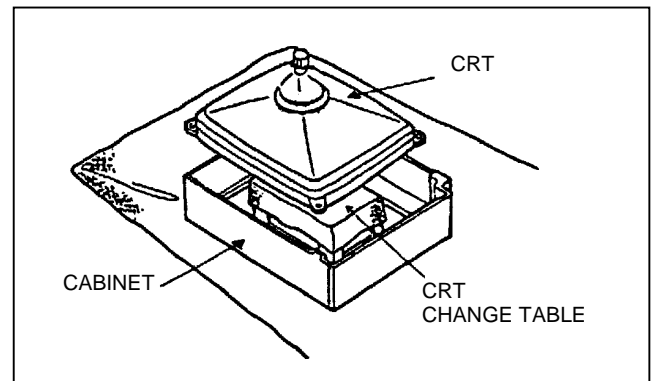


Fig. 6

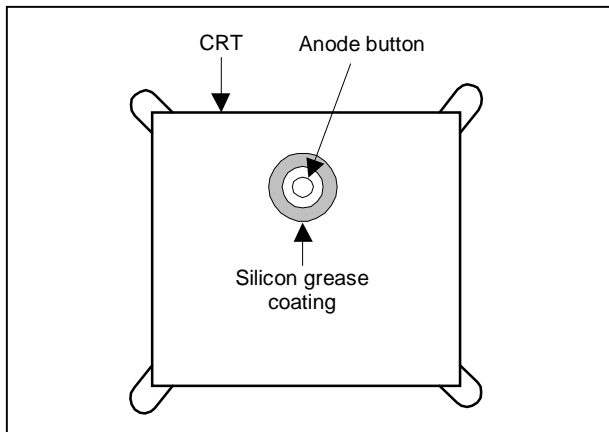


Fig. 7

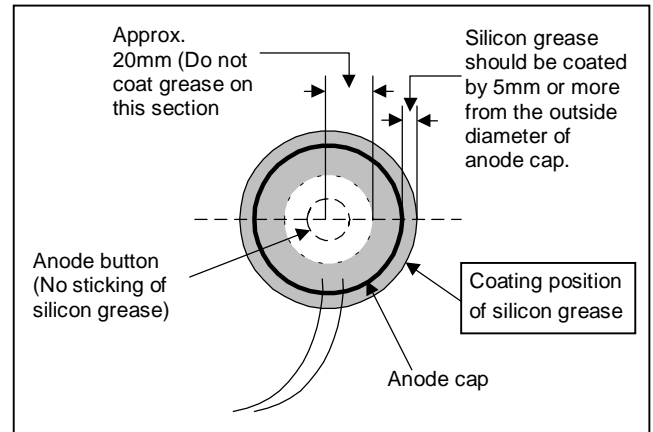


Fig. 8

REPLACEMENT OF MEMORY ICs

1. Memory ICs

This TV use memory ICs. In the memory ICs, there are memorized data for correctly operating the video and deflection circuits. When replacing memory ICs, be sure to use ICs written with the initial values of data.

2. Procedure for replacing memory ICs

PROCEDURE
<p>(1) Power off Switch the power off and unplug the power cord from the wall outlet.</p>
<p>(2) Replace ICs. Be sure to use memory ICs written with the initial data values.</p>
<p>(3) Power on Plug the power cord into the wall outlet and switch the power on.</p>
<p>(4) Check and set SYSTEM CONSTANT SET: It must not adjust without signal.</p> <ol style="list-style-type: none"> 1) Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously. 2) The SERVICE MENU screen of Fig. 1 will be displayed. 3) While the SERVICE MENU is displayed, press the INFORMATION key and MUTING key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed. 4) Check the setting values of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the FUNCTION UP/DOWN key, and set the correct value with the FUNCTION +/- key. 5) Press the MENU(OK) key to memorize the setting value. 6) Press the INFORMATION key twice, and return to the normal screen.
<p>(5) Setting of receive channels Set the receive channel. For setting, refer to the OPERATING INSTRUCTIONS.</p>
<p>(6) Setting of SERVICE MENU Verify the setting items of the SERVICE MENU of Table 2, and reset where necessary. For setting, refer to the SERVICE ADJUSTMENTS.</p>
<p>(7) User settings Check the user setting values of Table 3, and if setting value is different, set the correct value. For setting, refer to the OPERATING INSTRUCTIONS.</p>

SERVICE MENU	
1. IF	2. V/C
3. AUDIO	4. DEF
5. VSM PRESET	6. STATUS
7. PIP	8. ---
9. SHIPPING (OFF)	0. BUS FREE
1-9 : SELECT i : EXIT	

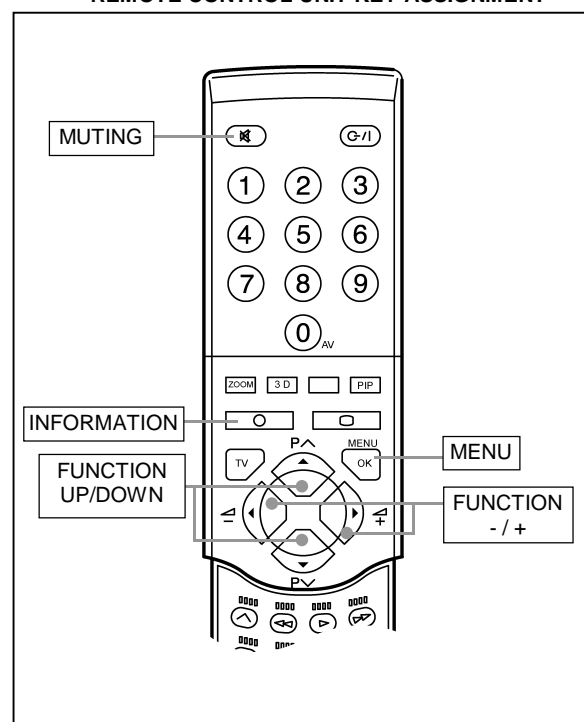
Fig.1

SYSTEM CONSTANT SET	
1. DESTINATION	**
-/+ OK : STORE i : EXIT	

Fig.2

2. CRT TYPE	16 : 9
3. PURITY	NO
4. PICTURE TILT	YES
5. DIGIPURE PRO	YES
6. PIP	1 TUNER
7. PIC & TEXT	YES
8. DOLBY	NO
9. BBE	YES
10. PROGRESSIVE	YES
11. TDA9178	YES
12. TONE IC	YES
13. FLAT	YES

REMOTE CONTROL UNIT KEY ASSIGNMENT



SETTING VALUES OF SYSTEM CONSTANT SET (TABLE 1)

Setting item	Setting content	AV32L5EKG	AV32L5EIG
1.DESTINATION	→ EK → EU → EI →	EK	EI
2.CRT TYPE	→ 16:9 → 4:3 →	16:9	16:9
3.PURITY	→ YES → NO →	NO	NO
4.PICTURE TILT	→ YES → NO →	YES	YES
5.DIGIPURE PRO	→ YES → NO →	YES	YES
6.PIP	→ 1 TUNER → 2 TUNER → NO →	1 TUNER	1 TUNER
7.PIC & TEXT	→ YES → NO →	YES	YES
8.DOLBY	→ YES → NO →	NO	NO
9.BBE	→ YES → NO →	YES	YES
10.PROGRESSIVE	→ YES → NO →	YES	YES
11.TDA9178	→ YES → NO →	YES	YES
12.TONE IC	→ YES → NO →	YES	YES
13.FLAT	→ YES → NO →	YES	YES

SERVICE MENU SETTING ITEMS (TABLE 2)

Setting item	Setting value	Setting item	Setting value
1. IF	1. VCO 2. ATT ON/OFF	5. VSM PRESET COOL NORMAL WARM	1. CONT. 2. BRIGHT 3. SHARP 4. COLOUR 5. HUE 6. WDR R 7. WDR G 8. WDR B
2. V / C	1. RGB BLK 2. WDR R 3. WDR G 4. WDR B 5. BRIGHT 6. CONTRAST 7. COLOUR 8. HUE 9. SHARP 10. VCO ADJUSTMENT 11. VIDEO AGC 12. SYNC SLICE	6. STATUS (Do not adjust)	VPS PDC
3. AUDIO (Do not adjust)	1. ERR LIMIT 2. A2 ID THR	7. PIP	1. PIP VCO ADJ
4. DEF.	1. V-SHIFT 2. V-SIZE 3. H-CENT 4. H-SIZE 5. TRAPEZ 6. EW-PIN 7. COR-PIN 8. COR-UP 9. COR-LO 10. ANGLE 11. BOW 12. V-S.CR 13. V.LIN	9. SHIPPING (Do not adjust)	OFF
		0. BUS FREE (Do not adjust)	

USER SETTING VALUES (TABLE 3)

Setting item	Setting value	Setting item	Setting value
SUB POWER	ON	VOLUME	10
SHIPPING CHANNEL	PR1	DISPLAY	INDICATED
PRESET CHANNEL	See ; OPERATING INSTRUCTIONS.	ZOOM MODE	PANORAMIC
PICTURE SETTING		EXT SETTING	
TINT	COOL	ID	BLANK
CONTRAST	CENTER	DUBBING	EXT-1→EXT-2
BRIGHT	CENTER		
SHARP	CENTER		
COLOUR	CENTER		
ECO MODE	OFF		
PICTURE FEATURES		FEATURES	
DIGITAL VNR	AUTO	SLEEP TIMER	OFF
DIGIPURE PRO	AUTO	BLUE BLACK	ON
COLOUR SYSTEM	TV : According to preset CH	CHILD LOCK	ID : No.0000, All CH : OFF
4:3 AUTO ASPECT	EXT : AUTO	DECODER (EXT-2)	All CH : OFF
	PANORAMIC		
SOUND SETTING		INSTALL	
BASS	CENTER	LANGUAGE	ENGLISH
TREBLE	CENTER	EDIT	PR CHANNEL ONLY
BALANCE	CENTER		OTHERS : BLANK
TV SPEAKER	L / R		
HYPER SOUND	OFF		
BBE	ON		

SERVICE ADJUSTMENTS

BEFORE STARTING SERVICE ADJUSTMENT

1. There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.
2. The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values that adjust the screen to the optimum condition can be different from the initial setting values.
3. Make sure that connection is correctly made to AC power source.
4. Turn on the power of the TV and measuring instrument for warming up for at least 30 minutes before starting adjustment.
5. If the receive or input signal is not specified, use the most appropriate signal for adjustment.
6. Never touch parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

7. Preparation for adjustment (presetting):
Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT:

Setting position

PICTURE MODE (VSM)	NORMAL
TINT, CONTRAST, BRIGHT SHARP, COLOUR	CENTER
SLEEP TIMER	OFF
BALANCE	CENTER
ECO	OFF
ZOOM	PANORAMIC

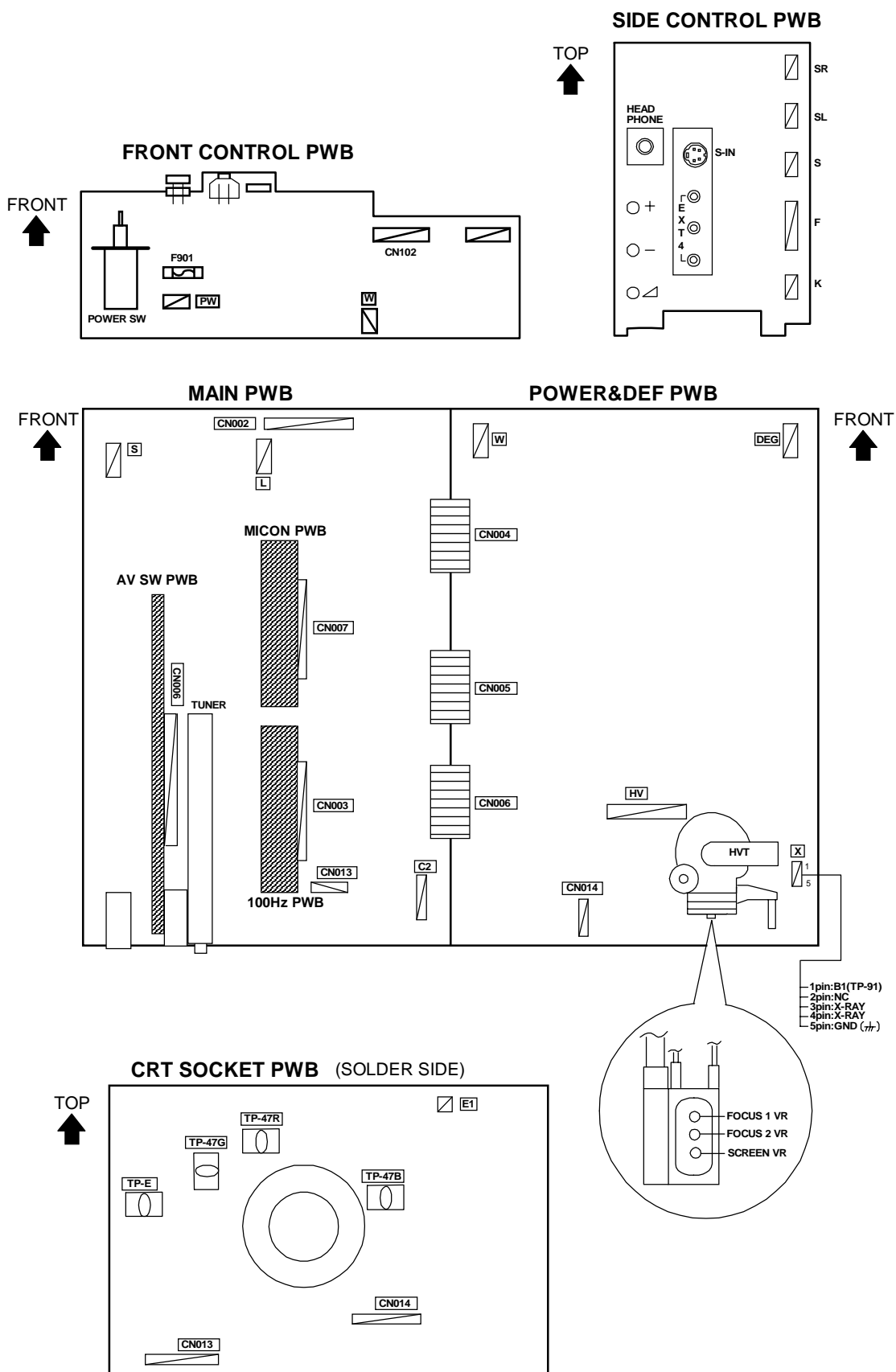
MEASURING INSTRUMENT AND FIXTURES

- 1.DC voltmeter (or digital voltmeter)
- 2.Oscilloscope
- 3.Signal generator (Pattern generator) [PAL / SECAM / NTSC]
- 4.Remote control unit

ADJUSTMENT ITEMS

- CHECKING ITEMS.
- ADJUSTMENT OF FOCUS AND SCREEN.
- IF CIRCUIT ADJUSTMENT.
- VSM PRESET SETTING.
- VIDEO / CHROMA CIRCUIT ADJUSTMENT.
- PIP CIRCUIT VCO ADJUSTMENT.
- AUDIO CIRCUIT ADJUSTMENT. (DO NOT ADJUST)
- DEFLECTION CIRCUIT ADJUSTMENT.

ADJUSTMENT LOCATIONS



BASIC OPERATION SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings (adjustments):

- (1) **1. IF** This mode adjusts the setting values of the IF circuit.
- (2) **2. V/C** This mode adjusts the setting values of the VIDEO / CHROMA circuit.
- (3) **3. AUDIO** This mode adjusts the setting values of the multiplicity SOUND circuit.
- (4) **4. DEF** This mode adjusts the setting values of the DEFLECTION circuit for each aspect mode given below.

ASPECT MODE	Vertical frequency / Scan mode
FULL	100Hz inter-race / 60Hz Progressive
PANORAMIC	100Hz inter-race / 60Hz Progressive
SUBTITLE	100Hz inter-race / 60Hz Progressive

- (5) **5. VSM PRESET** This mode adjusts the initial setting values of COOL, NOMAL and WARM.
(VSM : Video Status Memory)
- (6) **7. PIP** This mode adjusts the setting values of the PIP circuit.

3. BASIC OPERATION OF SERVICE MENU

(1) How to enter SERVICE MENU

Press the **INFORMATION** key and the **MUTING** key of the REMOTE CONTROL UNIT simultaneously (Fig.2), and the SERVICE MENU screen (Fig. 1) will be displayed.

SERVICE MENU

SERVICE MENU

- | | |
|-------------------|-------------|
| 1. IF | 2. V/C |
| 3. AUDIO | 4. DEF |
| 5. VSM PRESET | 6. STATUS |
| 7. PIP | 8. --- |
| 9. SHIPPING (OFF) | 0. BUS FREE |
- 1-9 : SELECT i : EXIT

Fig.1

(2) Selection of SUB MENU SCREEN

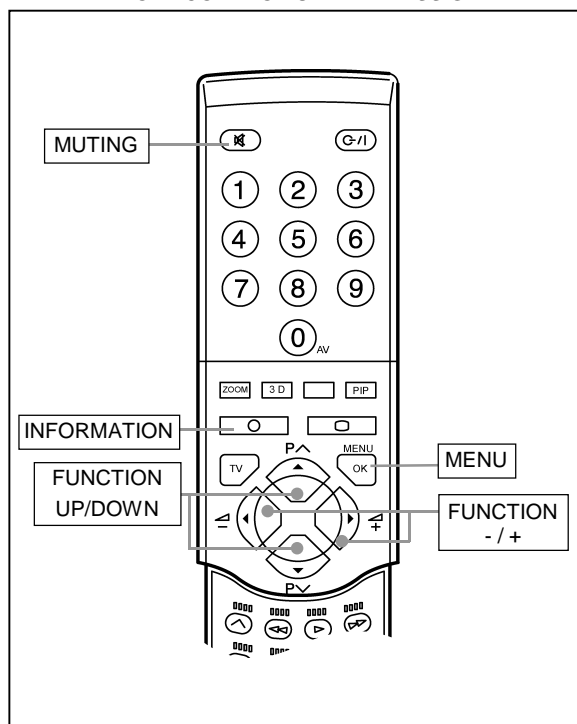
Press one of keys 1~5 of the REMOTE CONTROL UNIT and select the SUB MENU SCREEN (See Fig. 3), form the SERVICE MENU.

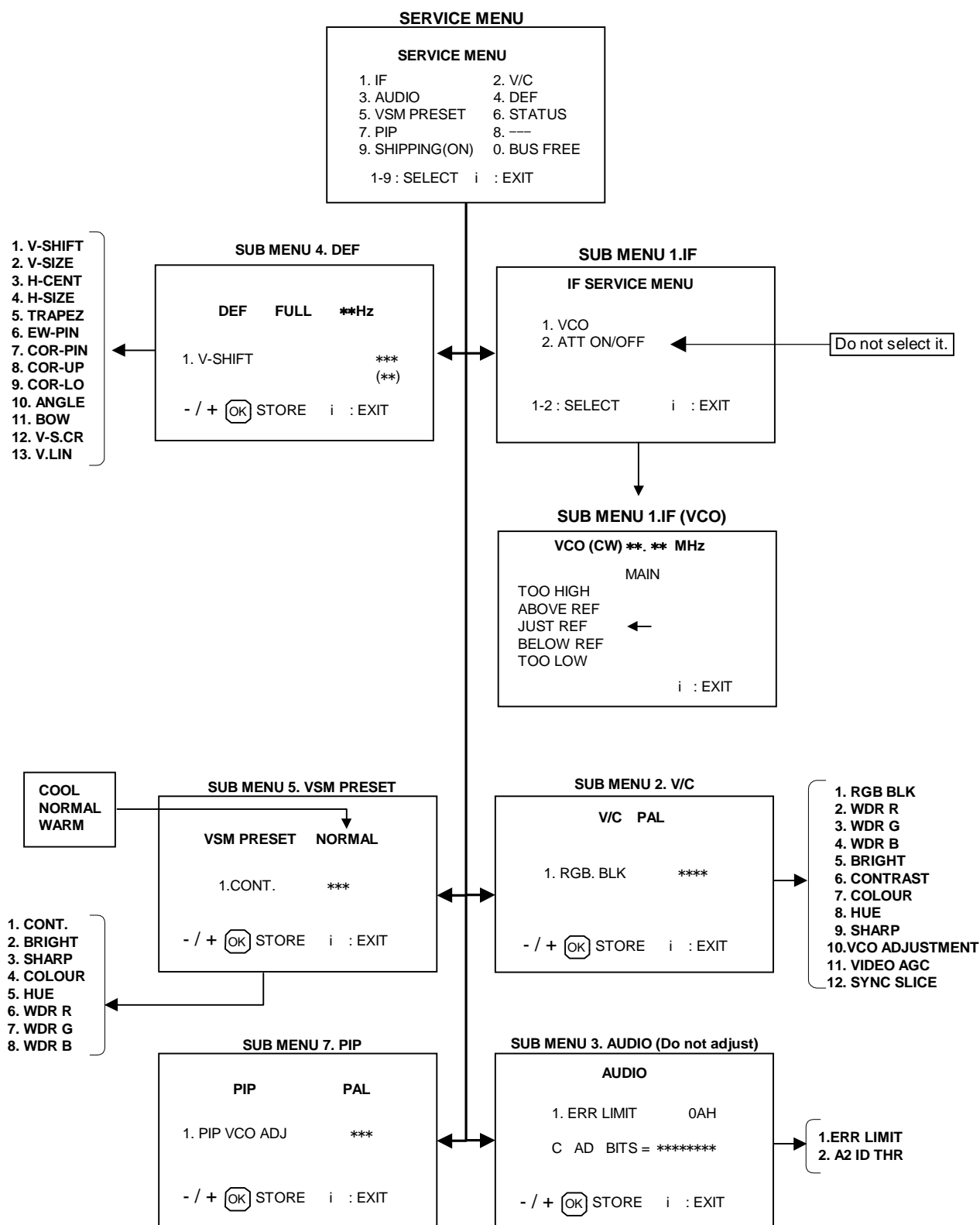
SERVICE MENU → SUB MENU

1. IF
2. V / C
3. AUDIO
4. DEF.
5. VSM PRESET
6. STATUS
7. PIP
8. - - -
9. SHIPPING (OFF)
0. BUS FREE

The item of number 6, 8, 9, and 0 are not to work.

REMOTE CONTROL UNIT KEY ASSIGNMENT





- 1. V-SHIFT
- 2. V-SIZE
- 3. H-CENT
- 4. H-SIZE
- 5. TRAPEZ
- 6. EW-PIN
- 7. COR-PIN
- 8. COR-UP
- 9. COR-LO
- 10. ANGLE
- 11. BOW
- 12. V-S.CR
- 13. V.LIN

COOL
NORMAL
WARM

- 1. CONT.
- 2. BRIGHT
- 3. SHARP
- 4. COLOUR
- 5. HUE
- 6. WDR R
- 7. WDR G
- 8. WDR B

- 1. RGB BLK
- 2. WDR R
- 3. WDR G
- 4. WDR B
- 5. BRIGHT
- 6. CONTRAST
- 7. COLOUR
- 8. HUE
- 9. SHARP
- 10. VCO ADJUSTMENT
- 11. VIDEO AGC
- 12. SYNC SLICE

- 1. ERR LIMIT
- 2. A2 ID THR

Do not select it.

(3) **Setting methods**

- Method of Setting 1.IF as [VCO] : It must not adjust without signal.

- ① 1 Key..... Select 1.IF.
- ② 1 Key Select 1. VCO (CW)
Check the arrow position from the "ABOVE REF." to "BELOW REF."
The receive channel is automatically set by selecting VCO mode.
- ③ INFORMATION Key Return to the SERVICE MENU screen.

- Method of setting 2.V/C, 3.AUDIO, 4.DEF, 5.VSM PRESET and 7.PIP.

- ① 2~5, 7 Key Select one from 2. V/C, 3. AUDIO, 4. DEF, 5. VSM PRESET and 7.PIP.
- ② FUNCTION UP/DOWN Key Select setting items.
- ③ FUNCTION +/- Set (adjust) the setting values of the setting items.
- ④ MENU (OK) Key Memorize the setting value.
(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key -
if you do, the values will not be stored in memory.)
- ⑤ INFORMATION Key Return to the **SERVICE MENU** screen.

- Do not adjust 6. STATUS, 8. --- , 9. SHIPPING(OFF) and 0. BUS FREE functions.

(4) **Release of SERVICE MENU**

- 1) After completing the adjustment, return to the SERVICE MENU, then again press the INFORMATION (OK) key to return to the normal screen.

ADJUSTMENT

CHECKING ITEM

Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 Power Supply	DC voltmeter Remote Control unit	TP-91(B1) TP-E(↗) [X connector on POWER DEF PWB]		<ol style="list-style-type: none"> 1. Receive any broadcast. 2. Press the ZOOM key and select the FULL mode. 3. Select 2. V/C from the SERVICE MENU. 4. Select 1. RGB BLK with function UP / DOWN key. 5. Press the function + (↖) key to turn on the cutoff screen condition (all black screen). 6. Connect a DC voltmeter to TP-91(B1) and TP-E(↗). 7. Make sure that the voltage is DC139.9 ±2.0V. 8. Press the function - (↘) key to return to service menu.
Check of High Voltage	High voltage meter Remote Control unit	CRT anode Chassis GND		<ol style="list-style-type: none"> 1. Receive any broadcast. 2. Press the ZOOM key and select the FULL mode. 3. Select 2. V/C from the SERVICE MENU. 4. Select 1. RGB BLK with function UP / DOWN key. 5. Press the function + (↖) key to turn on the cutoff screen condition (all black screen). 6. Connect a High voltage meter to CRT ANODE and chassis GND. 7. Make sure that the voltage is DC 31.0kV ^{+1kV} _{-1.5kV}. 8. Press the function - (↘) key to return to service menu.

ADJUSTMENT OF FOCUS AND SCREEN

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of FOCUS	Signal generator		FOCUS 1 VR FOCUS 2 VR [In HVT]	<ol style="list-style-type: none"> 1. Receive a cross-hatch signal. 2. By turning the FOCUS 2 VR, to make the vertical lines as fine and sharp as possible. 3. By turning the FOCUS 2 VR, adjust the picture so that the 6th vertical line from left side of the cross-hatch picture becomes thinnest. 4. By turning the FOCUS 1 VR, adjust the 4th horizontal line from the upper side may become uniform at the line center and its periphery. 5. Carry out adjustment by repeating the steps 3 and 4 about. 6. Make sure that when the screen is darkened, the lines remain in good focus.

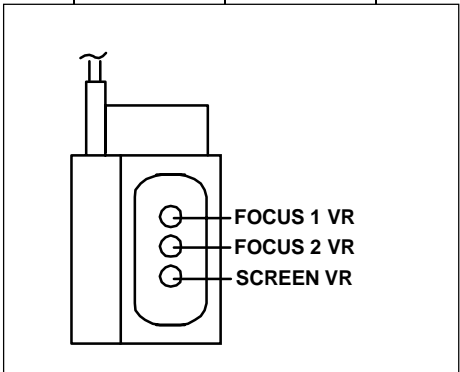


Diagram of the HVT (High Voltage Transformer) showing three adjustment points: FOCUS 1 VR, FOCUS 2 VR, and SCREEN VR.

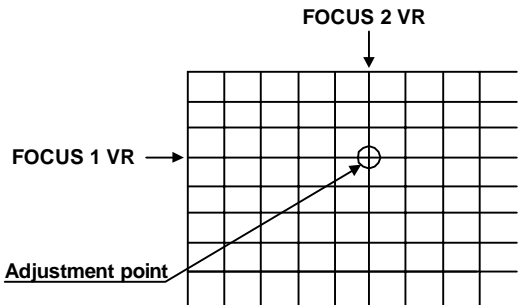


Diagram of a cross-hatch pattern on a grid. An arrow labeled "FOCUS 2 VR" points to the vertical lines. An arrow labeled "FOCUS 1 VR" points to the horizontal lines. An arrow labeled "Adjustment point" points to the intersection of the 4th horizontal line and the 6th vertical line.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SCREEN VR	Signal generator Remote control unit		SCREEN VR (Within FBT)	<ol style="list-style-type: none"> Input the whole black signal. Press the ZOOM key and select the FULL mode. Select 2. V/C from the SERVICE MENU. Turn the SCREEN VR clockwise from the full counterclockwise position, and stop it at the point where "CLOW" status (marked in figure) changes from "1" → "0" → "1" (which is indicated at the 3rd column from the right). Then turn the SCREEN VR to the counterclockwise, and stop where "CLOW" status change "1" → "0".
<div> <div> <div>V/C</div> <div>PAL</div> <div>1. RGB.BLK00</div> <div>- / + OK STORE i : EXIT</div> <div>00000100</div> </div> <div>CLOW status</div> <div>Screen VR adjustment</div> </div>				

IF CIRCUIT CHECKING


Item	Measuring instrument	Test point	Adjustment part	Description
Checking of VCO	Remote control unit		1. VCO	<ul style="list-style-type: none">Under normal conditions, no adjustment is required. Confirmation adjustment. <ol style="list-style-type: none">Receive any broadcast.Select 1.IF from the SERVICE MENU.Then select 1.VCO from the IF SERVICE MENU.In the VCO adjustment screen, the yellow allow point to the characters. Check the allow position where pointed to the character from “ABOVE REF” to “BELLOW REF”.
<div><div><div>IF SERVICE MENU</div><div>1. VCO</div><div>2. ATT ON/OFF</div><div>1-2 : SELECT</div><div>i : EXIT</div></div><div>Do not select this mode</div></div> <div><div>VCO(CW) *****MHz</div><div>MAIN</div><div>TOO HIGH</div><div>ABOVE REF</div><div>JUST REF</div><div>BELOW REF</div><div>TOO LOW</div><div>i : EXIT</div></div>				

VSM PRESET SETTING

Item	Measuring instrument	Test point	Adjustment part	Description																																																		
Setting of VSM PRESET	Remote control unit		1. CONT. 2. BRIGHT 3. SHARP 4. COLOUR 5. HUE 6. WDR R 7. WDR G 8. WDR B	1. Press the MENU key and select COOL mode with the remote control unit. 2. Select 5.VSM PRESET from the SERVICE MENU. 3. Adjust the FUNCTION UP/DOWN and +/- key to bring the set values of 1.CONT ~ 8. WDR B to the values shown in the table. 4. Press the MENU key and memorize the set value. 5. Respectively select the VSM PRESET mode for NORMAL and WARM, and make similar adjustment as in 3 above. 6. Press the MENU key and memorize the set value. * Refer to OPERATING INSTRUCTIONS for the PICTURE MODE.																																																		
<table><tr><th colspan="2">VSM preset mode</th><th></th><th></th><th></th></tr><tr><th>Setting item</th><th>COOL</th><th>NORMAL</th><th>WARM</th><th></th></tr><tr><td>1. CONT.</td><td>+16</td><td>-4</td><td>-13</td><td></td></tr><tr><td>2. BRIGHT</td><td>0</td><td>0</td><td>0</td><td></td></tr><tr><td>3. SHARP</td><td>-12</td><td>-12</td><td>-12</td><td></td></tr><tr><td>4. COLOUR</td><td>0</td><td>0</td><td>-1</td><td></td></tr><tr><td>5. HUE</td><td>0</td><td>0</td><td>0</td><td></td></tr><tr><td>6. WDR R</td><td>-25</td><td>0</td><td>+5</td><td></td></tr><tr><td>7. WDR G</td><td>-12</td><td>0</td><td>0</td><td></td></tr><tr><td>8. WDR B</td><td>0</td><td>0</td><td>0</td><td></td></tr></table>					VSM preset mode					Setting item	COOL	NORMAL	WARM		1. CONT.	+16	-4	-13		2. BRIGHT	0	0	0		3. SHARP	-12	-12	-12		4. COLOUR	0	0	-1		5. HUE	0	0	0		6. WDR R	-25	0	+5		7. WDR G	-12	0	0		8. WDR B	0	0	0	
VSM preset mode																																																						
Setting item	COOL	NORMAL	WARM																																																			
1. CONT.	+16	-4	-13																																																			
2. BRIGHT	0	0	0																																																			
3. SHARP	-12	-12	-12																																																			
4. COLOUR	0	0	-1																																																			
5. HUE	0	0	0																																																			
6. WDR R	-25	0	+5																																																			
7. WDR G	-12	0	0																																																			
8. WDR B	0	0	0																																																			
SETTING VALUES OF VSM PRESET																																																						

VIDEO/CHROMA CIRCUIT ADJUSTMENT

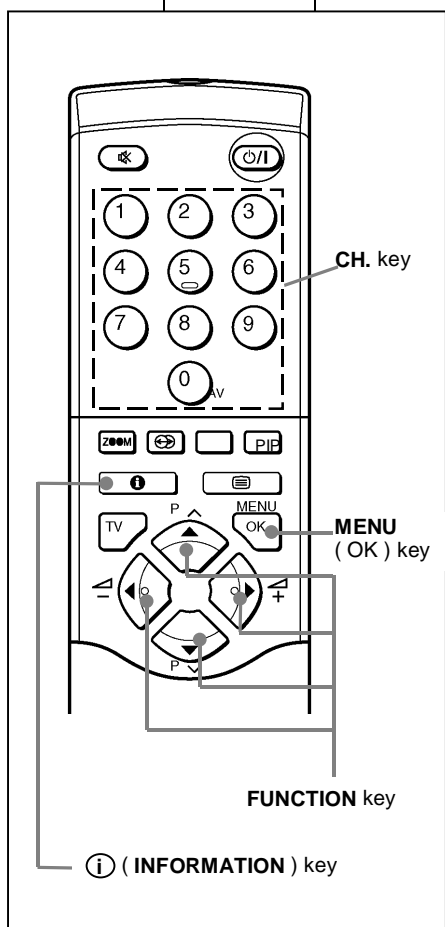
The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.
The setting values that adjust the screen to the optimum condition can be different from the initial setting values.

 Do not adjust

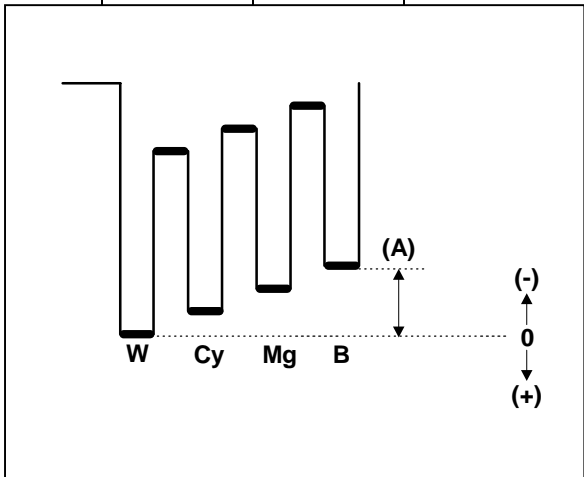
Setting item	Initial setting value			Setting item	Initial setting value		
	PAL	SECAM	NTSC		PAL	SECAM	NTSC
1.RGB BLK	—	—	—	7.COLOUR	000	000	000
2.WDR R	000	←	←	8.HUE	—	—	020
3.WDR G	000	←	←	9.SHARP	+007	←	←
4.WDR B	-012	←	←	10.VCO ADJUSTMENT	Automatically optimized after adjustment		
5.BRIGHT	000	←	←	11.VIDEO AGC	000	←	←
6.CONTRAST	000	←	←	12.SYNC SLICE	+007	←	←

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE (High-Light)	Signal generator Remote control unit		2.WDR R 3.WDR G	<ul style="list-style-type: none"> ● Set the PICTURE MODE to NORMAL. <ol style="list-style-type: none"> 1. Receive a black and white signal (colour off). 2. Select 2. V/C from the SERVICE MENU. 3. Modify 2. WDR R and 3.WDR G data to adjust the white balance (high light). 4. Press the MENU key and memorize the set value. 5. Change the contrast and brightness up and down with the remote control from low-light to high-light, and check that the tracking of the white balance is good.
Adjustment of SUB BRIGHT	Remote control unit		5.BRIGHT	<ol style="list-style-type: none"> 1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 5.BRIGHT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION -/+ key. 5. If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness. 6. Press the MENU key and memorize the set value.
Adjustment of SUB CONTRAST	Remote control unit		6.CONTRAST	<ol style="list-style-type: none"> 1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 6.CONTRAST with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION - or + key. 5. If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast. 6. Press the MENU key and memorize the set value.

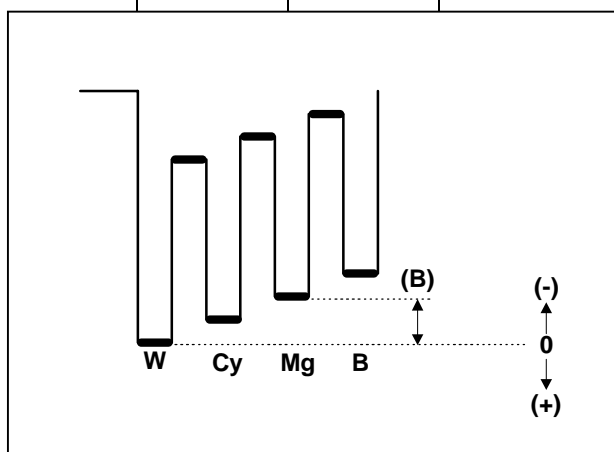
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR I	Remote control unit		7.COLOUR (PAL/SECAM/NTSC)	[Method of adjustment without measuring instrument]
			PAL COLOUR	<ol style="list-style-type: none"> 1. Receive PAL broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 7.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value for PAL COLOUR with the FUNCTION - or + key. 5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour. 6. Press the MENU key and memorize the set value.
			SECAM COLOUR (Only for AV32L5EIGY)	<ol style="list-style-type: none"> 1. Receive a SECAM broadcast. 2. Make fine adjustment of SECAM COLOUR in the same manner as for above.
			NTSC COLOUR	<p>(NTSC 3.58 COLOUR)</p> <ol style="list-style-type: none"> 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal from the EXT terminal. 2. Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above.
				<p>(NTSC 4.43 COLOUR)</p> <ol style="list-style-type: none"> 1. Input a NTSC 4.43MHz COMPOSITE VIDEO signal from the EXT terminal. 2. Make similar fine adjustment of 4.43 COLOUR in the same manner as for above.



Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR II	Signal generator Oscilloscope Remote control unit	TP-47B TP-E(↗) [CRT SOCKET PWB]	7.COLOUR (PAL/SECAM/NTSC)	[Method of adjustment using measuring instrument]
			PAL COLOUR	<ol style="list-style-type: none"> 1. Receive a PAL full field colour bar signal(75% white). 2. Select 2.V/C from the SERVICE MENU. 3. Select 7.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value of PAL COLOUR with the FUNCTION - or + key. 5. Connect the oscilloscope between TP-47B and TP-E 6. Adjust PAL COLOUR and bring the value of (A) in the illustration to +6V (voltage difference between white (w) and blue (B)). 7. Press the MENU key and memorize the setting value.
			SECAM COLOUR (Only for AV32L5EIG)	<ol style="list-style-type: none"> 1. Receive a SECAM full field colour bar signal(75% white). 2. Set the initial setting value of SECAM COLOUR with the FUNCTION +/- key. 3. Adjust SECAM COLOUR and bring the value of (A) of the illustration to +7V(W~B). 4. Press the MENU key and memorize the setting value.
			NTSC COLOUR	(NTSC 3.58 COLOUR) <ol style="list-style-type: none"> 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Set the initial setting value of NTSC 3.58 COLOUR with the FUNCTION +/- key. 3. Adjust NTSC 3.58 COLOUR and bring the value of (A) of the illustration to +4V(W~B). 4. Press the MENU key and memorize the setting value.
				(NTSC 4.43 COLOUR) <ol style="list-style-type: none"> 1. Input a NTSC 4.43MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Set the initial setting value of NTSC 4.43 COLOUR with the FUNCTION +/- key. 3. Adjust NTSC 4.43 COLOUR and bring the value of (A) of the illustration to -7V(W~B). 4. Press the MENU key and memorize the setting value.



Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB HUE I	Remote control unit		8.HUE	[Method of adjustment without measuring instrument]
			NTSC 3.58 HUE	<ol style="list-style-type: none"> 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 8.HUE with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION +/- key. 5. If you cannot get the best hue with the initial setting value, make fine adjustment until you get the best hue. 6. Press the MENU key and memorize the set value.
			NTSC 4.43 HUE	<ol style="list-style-type: none"> 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.
Adjustment of SUB HUE II	Signal generator	TP-47B TP-E(↓)	8.HUE	[Method of adjustment using measuring instrument]
	Oscilloscope Remote control unit	[CRT SOCKET PWB]	NTSC 3.58 HUE	
				<ol style="list-style-type: none"> 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 8.HUE with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION - / + key. 5. Connect the oscilloscope between TP-47B and TP-E 6. Adjust NTSC 3.58 HUE to bring the value of (B) in the illustration to -2V (voltage difference between white (W) and magenta(Mg)). 7. Press the MENU key and memorize the setting value
			NTSC 4.43 HUE	<ol style="list-style-type: none"> 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.



Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of VCO for colour decoder	Signal generator Remote control unit		10. VCO	1. Input a PAL full field colour bar signal (75% white) from the EXT terminal. 2. Select 2. V/C from the SERVICE MENU. 3. Select 10. VCO adjustment with the FUNCTION UP/DOWN key. 4. Press the OK key then automatically optimized.

PIP CIRCUIT ADJUSTMENT

The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.
The setting values that adjust the screen to the optimum condition can be different from the initial setting values.

	Variable range	Initial setting value
1.PIP VCO ADJ	-001 (Fixed)	-001

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of PIP VCO for pip colour decoder	Signal generator Remote control unit		1. PIP VCO ADJ	1. Input a PAL full field colour bar signal (75% white) from the EXT terminal. 2. Select 7. PIP from the SERVICE MENU. 3. Select 1. PIP VCO ADJ with the FUNCTION UP/DOWN key. 4. Press the OK key then automatically optimized.

AUDIO CIRCUIT ADJUSTMENT [Do not adjust]

Do not adjust **3. AUDIO** of the SERVICE MENU as it requires no adjustment.

If values had changed by the some reason set the initial values in the following table.

Setting item	Variable range	Fixed value
1. ERR LIMIT	00H~FFH	0AH
2. A2 ID THR	00H~FFH	19H

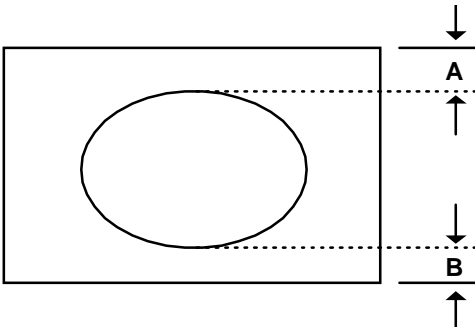
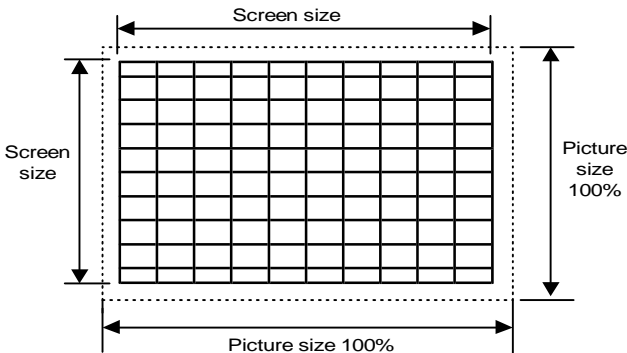
DEFLECTION CIRCUIT ADJUSTMENT

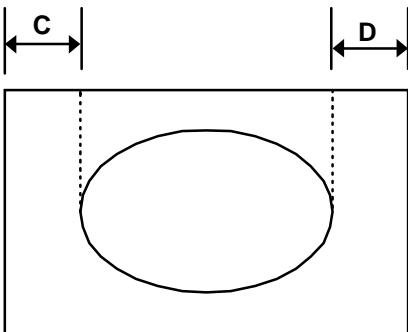
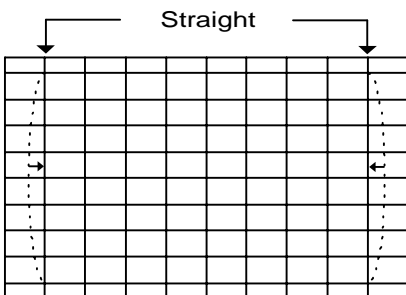
There are 4 aspect modes (①FULL, ②PANORAMIC, ③SUBTITLE, ④COMPRESS) of the adjustment (1) 100Hz i mode, (2) 60Hz p and (3) 120Hz i mode..... depending upon the kind of signals (vertical frequency 100Hz i / 60HZ p / 120Hz i). Character "i" is an omission of "inter lace scan", and character "p" is an omission of "progressive scan".

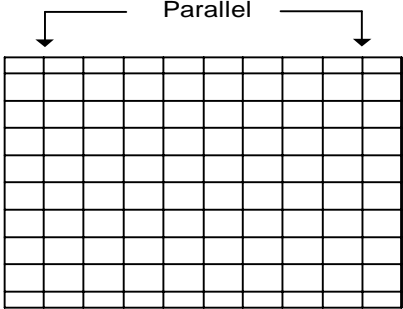
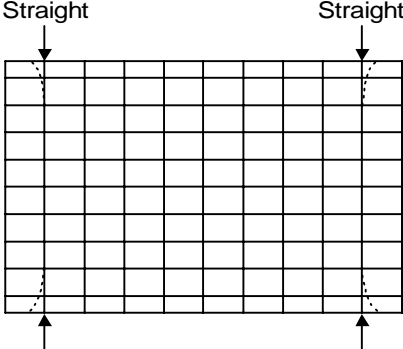
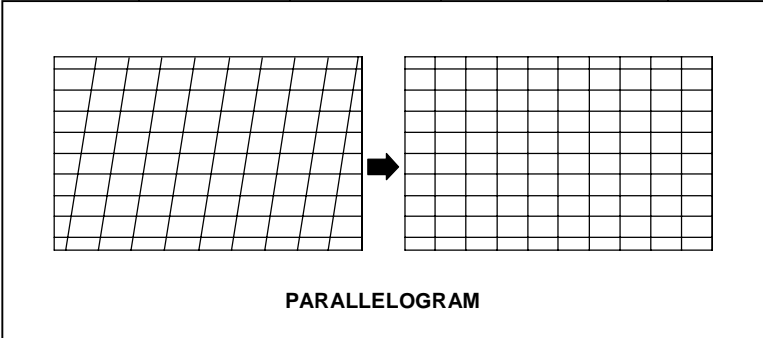
- When the 100Hz FULL mode has been established, the setting of other modes will be done automatically. However, if the picture quality has not been optimized, adjust each mode again, respectively.
- The adjustment using the remote control unit is made on the basis of the initial setting values.
- The setting values that adjust the screen to the optimum condition can be different from the initial setting values.

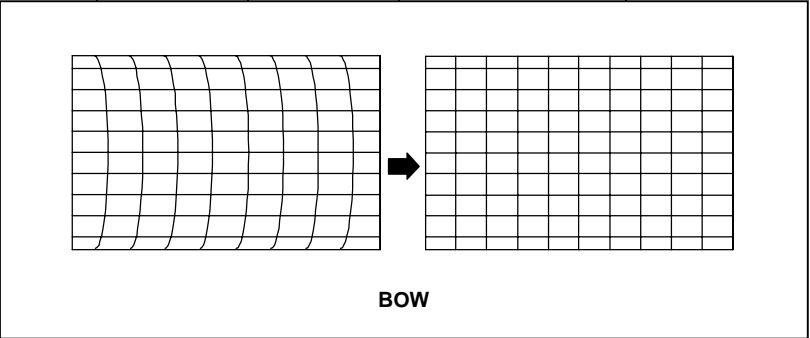
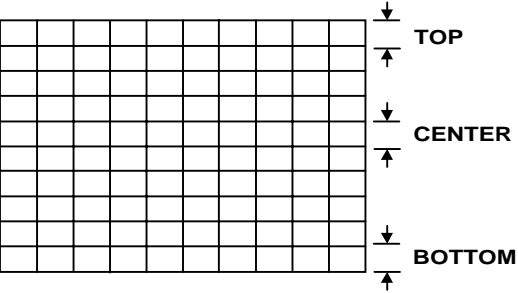
☐ Do not adjust

Setting item	Initial setting value							
	FULL		PANORAMIC		SUBTITLE (16 : 9)		COMPRESS	
	100Hz i	60Hz p	100Hz i	60Hz p	100Hz i	60Hz p	100Hz i	120Hz i
1.V- SHIFT	-3	+10	+1	0	+5	0	0	0
2.V-SIZE	0	+1	0	0	0	0	-15	0
3.H-CENT	-15	+5	-2	0	0	0	0	0
4.H-SIZE	-29	-4	-4	0	0	0	0	0
5.TRAPEZ	-9	+13	0	0	0	0	0	0
6.EW-PIN	-17	0	+1	0	-1	0	0	0
7.COR-PIN	-13	0	-2	0	-2	0	0	0
8.COR-UP	+7	0	-6	0	+5	0	0	0
9.COR-LO	+10	0	+7	0	+4	0	0	0
10.ANGLE	0	0	+10	0	0	0	0	0
11.BOW	0	0	0	0	0	0	0	0
12.V-S.CR	-17	0	+7	0	+11	0	0	0
13.V-LIN	-3	0	-11	0	-18	0	0	0

Item	Measuring instrument	Test point	Adjustment part	Description												
Adjustment of V-SHIFT	Signal generator Remote control unit		1.V- SHIFT	[FULL mode] 1. Receive a circle pattern signal of vertical frequency 50Hz. 2. Select 4.DEF from the SERVICE MENU. 3. Select 1.V-SHIFT with the FUNCTION UP/DOWN key. 4. Adjust V-SHIFT to make A = B . 5. Check the adjustment condition in other zoom mode. If it is a wrong condition, re-adjust in "FULL" mode and adjust with 1. V-SHIFT. 6. Press the MENU key and memorize the set value.												
																
Adjustment of V-SIZE	Signal generator Remote control unit		2.V-SIZE	7. Receive a cross-hatch signal. 8. Select 2.V-SIZE and set the initial setting value. 9. Adjust V-SIZE to the vertical screen size of the picture becomes the value given table below. 10. Press the MENU key and memorize the set value. 11. Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the vertical screen size is in the table below. 12. Press the MENU key and memorize the set value.												
																
<table><tr><th>ASPECT SCREEN POSITION</th><th>FULL</th><th>PANORAMIC</th><th>SUB TITLE</th></tr><tr><td>TOP</td><td>92%</td><td>87%</td><td>70%</td></tr><tr><td>BOTTOM</td><td>92%</td><td>87%</td><td>83%</td></tr></table>					ASPECT SCREEN POSITION	FULL	PANORAMIC	SUB TITLE	TOP	92%	87%	70%	BOTTOM	92%	87%	83%
ASPECT SCREEN POSITION	FULL	PANORAMIC	SUB TITLE													
TOP	92%	87%	70%													
BOTTOM	92%	87%	83%													
[VERTICAL SCREEN SIZE]																

Item	Measuring instrument	Test point	Adjustment part	Description								
Adjustment of H. CENTER	Signal generator Remote control unit		3.H-CENT.	13. Receive a circle pattern signal. 14. Select 3.H-CENT and set the initial setting value. 15. Adjust H-CENT to make C=D . 16. Press the MENU key and memorize the set value.								
												
Adjustment of H.SIZE	Signal generator Remote control unit		4.H-SIZE	17. Receive a cross-hatch signal. 18. Select 4.H-SIZE and set the initial setting value. 19. Adjust H-SIZE and make sure that the horizontal screen size of the picture is in the bellow table. 20. Press the MENU key and memorize the set value. 21. Press the MENU key and memorize the set value.								
<table><tr><th>ASPECT MODE</th><th>FULL</th><th>PANORAMIC</th><th>SUBTITLE</th></tr><tr><td>H SIZE</td><td>92%</td><td>95%</td><td>92%</td></tr></table> <p>[HORIZONTAL SCREEN SIZE]</p>					ASPECT MODE	FULL	PANORAMIC	SUBTITLE	H SIZE	92%	95%	92%
ASPECT MODE	FULL	PANORAMIC	SUBTITLE									
H SIZE	92%	95%	92%									
Adjustment of EW-PIN	Signal generator Remote control unit		6.EW-PIN	22. Select 6.EW-PIN and set the initial setting value 23. Adjust EW-PIN and make the 2nd.vertical lines at the left and right edges of the screen straight. Also make sure that the 3rd vertical lines are straight. 24. Press the MENU key and memorize the set value.								
												

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of TRAPEZ	Signal generator Remote control unit		5.TRAPEZ	<p>25. Receive a cross-hatch signal.</p> <p>26. Select 5.TRAPEZ with the FUNCTION UP/DOWN key.</p> <p>27. Set the initial setting value of TRAPEZ with the FUNCTION - or + key.</p> <p>28. Adjust TRAPEZ and bring the VERTICAL lines at the right and left edges of the screen parallel .</p> <p>29. Press the MENU key and memorize the set value.</p>
				
Adjustment of CORNER UP/ LOW	Signal generator Remote control unit		7.COR-PIN 8.COR-UP 9.COR-LO	<p>30. Select 9.COR-LO with the FUNCTION UP / DOWN key.</p> <p>31. Set the initial setting value of COR-LO with the FUNCTION - or + key.</p> <p>32. Adjust COR-LO, and bring the lines at the low corner straight.</p> <p>33. Select 8.COR-UP with the FUNCTION UP / DOWN key.</p> <p>34. Set the initial setting value of COR-UP with the FUNCTION - or + key.</p> <p>35. Adjust COR-UP, and bring the lines at the upper corner straight.</p> <p>36. If the extreme upper & lower corners have pin or barrel condition a little, chose 7.COR-PIN and adjust it to get the straight.</p> <p>37. Press the MENU key and memorize the set value.</p>
				
Adjustment of ANGLE	Signal generator Remote control unit		10.ANGLE	<p>● In case which there is a parallelogram distortion of images on the screen.</p> <p>38. Select 10.ANGLE with the FUNCTION UP / DOWN key.</p> <p>39. Adjust ANGLE, and bring the VERTICAL lines straight.</p> <p>40. Press the MENU key and memorize the set value.</p>
				

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of BOW	Signal generator Remote control unit		11.BOW	<ul style="list-style-type: none"> In case where there is a bow-shaped distortion of images on the screen. 41. Select 11.BOW with the FUNCTION UP/DOWN key. 42. Adjust BOW, and bring the VERTICAL lines straight. 43. Press the MENU key and memorize the set value.
				
Adjustment of V-S.CR & V.LINE	Signal generator Remote control unit		12.V-S.CR 13.V.LIN.	<ul style="list-style-type: none"> When the vertical linearity has been deteriorated remarkably, perform the following steps. 44. Receive a cross-hatch signal. 45. Select 13. V.LIN with the FUNCTION UP / DOWN key. 46. Set the initial setting value of 13. V.LIN with the FUNCTION - / + key. 47. Select 12. V-S.CR. with the FUNCTION UP / DOWN key. 48. Set the initial setting value of 12. V-S.CR. with the FUNCTION - / + key. 49. Adjust 13. V.LIN and 12. V-S.CR. to the spaces of each lines at TOP, CENTER, and BOTTOM become uniform.
				
				<p>At first the adjustment in 100Hz FULL mode should be done, then the data for the other aspect mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 120Hz (NTSC EXT mode) FULL mode. If the adjustment in 100Hz each aspect mode has been done and stored, the data for the same aspect modes in 120Hz is corrected in the respective value. Only the data for the other aspect mode in 120Hz is corrected for itself.</p>

REPLACEMENT OF CHIP COMPONENT

■ CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

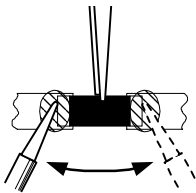
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

■ REPLACEMENT STEPS

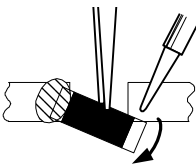
1. How to remove Chip parts

◆ Resistors, capacitors, etc

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

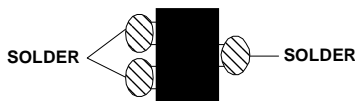


- (2) Shift with tweezers and remove the chip part.

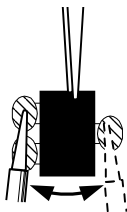


◆ Transistors, diodes, variable resistors, etc

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

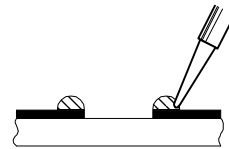


Note : After removing the part, remove remaining solder from the pattern.

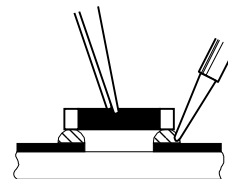
2. How to install Chip parts

◆ Resistors, capacitors, etc

- (1) Apply solder to the pattern as indicated in the figure.

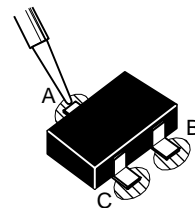


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

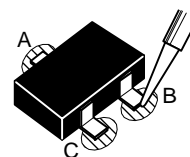


◆ Transistors, diodes, variable resistors, etc

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.





VICTOR COMPANY OF JAPAN, LIMITED

HOME AV NETWORK BUSINESS UNIT 12, 3-chome, Moriya-cho, Knagawa-ku, Yokohama, Kanagawa-prefecture, 221-8528, Japan

AV32L5EKGU-U #3
AV32L5EIGU-U #3



Printed in Japan
VP 0106
DP3051

STANDARD CIRCUIT DIAGRAM

NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal :PAL Colour bar signal
- (2)Setting positions of each knob/button and variable resistor :Original setting position when shipped
- (3)Internal resistance of tester :DC 20kΩ/V
- (4)Oscilloscope sweeping time :H ⇒ 20μS/div
:V ⇒ 5mS/div
:Others ⇒ Sweeping time is specified
- (5)Voltage values :All DC voltage values
- * Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

●In the PW board :R1209→R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

●Resistance value

- No unit :[Ω]
- K :[KΩ]
- M :[MΩ]

●Rated allowable power

- No indication :1/16[W]
- Others :As specified

●Type

- No indication :Carbon resistor
- OMR :Oxide metal film resistor
- MFR :Metal film resistor
- MPR :Metal plate resistor
- UNFR :Uninflamable resistor
- FR :Fusible resistor

*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

●Capacitance value

- 1 or higher :[pF]
- less than 1 :[μF]

●Withstand voltage

- No indication :DC50[V]
- AC indicated :AC withstand voltage [V]
- Others :DC withstand voltage [V]

*Electrolytic Capacitors

47/50[Example]:Capacitance value [μF]/withstand voltage[V]



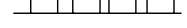
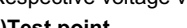
●Type

- No indication :Ceramic capacitor
- MY :Mylar capacitor
- MM :Metalized mylar capacitor
- PP :Polypropylene capacitor
- MPP :Metalized polypropylene capacitor
- MF :Metalized film capacitor
- TF :Thin film capacitor
- BP :Bipolar electrolytic capacitor
- TAN :Tantalum capacitor

(3)Coils



- No unit :[μH]
- Others :As specified

(4)Power Supply

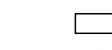


-  :B1
-  :B2
-  :9V
-  :5V

*Respective voltage values are indicated





(5)Test point

-  :Test point
-  :Only test point display

(6)Connecting method

-  :Connector
-  :Wrapping or soldering
-  :Receptacle

(7)Ground symbol

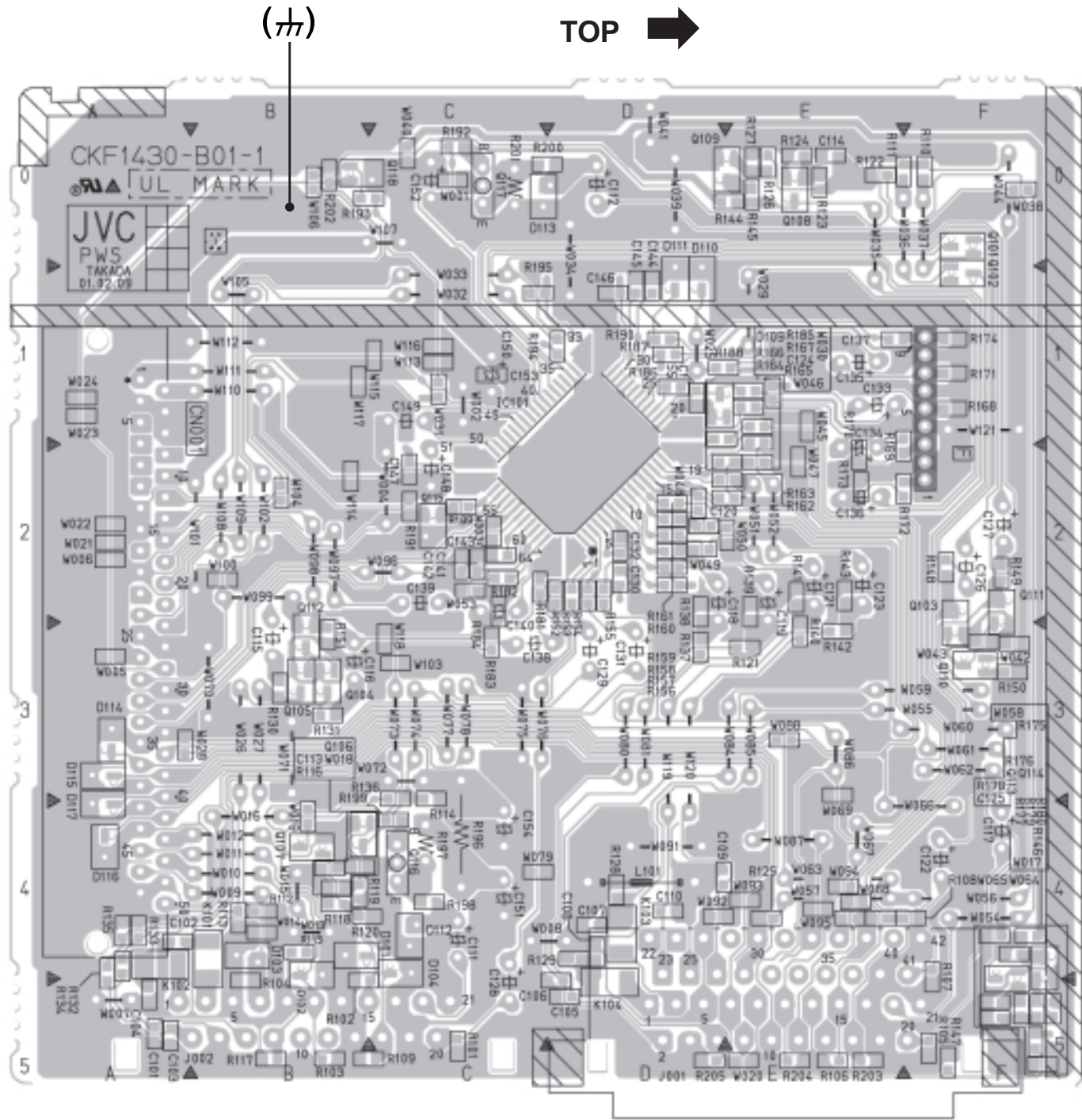
-  :LIVE side ground
-  :ISOLATED(NEUTRAL) side ground
-  :EARTH ground
-  :DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (≡) side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.









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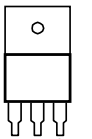
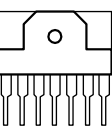
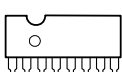
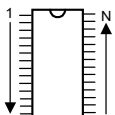
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PATTERN DIAGRAMS

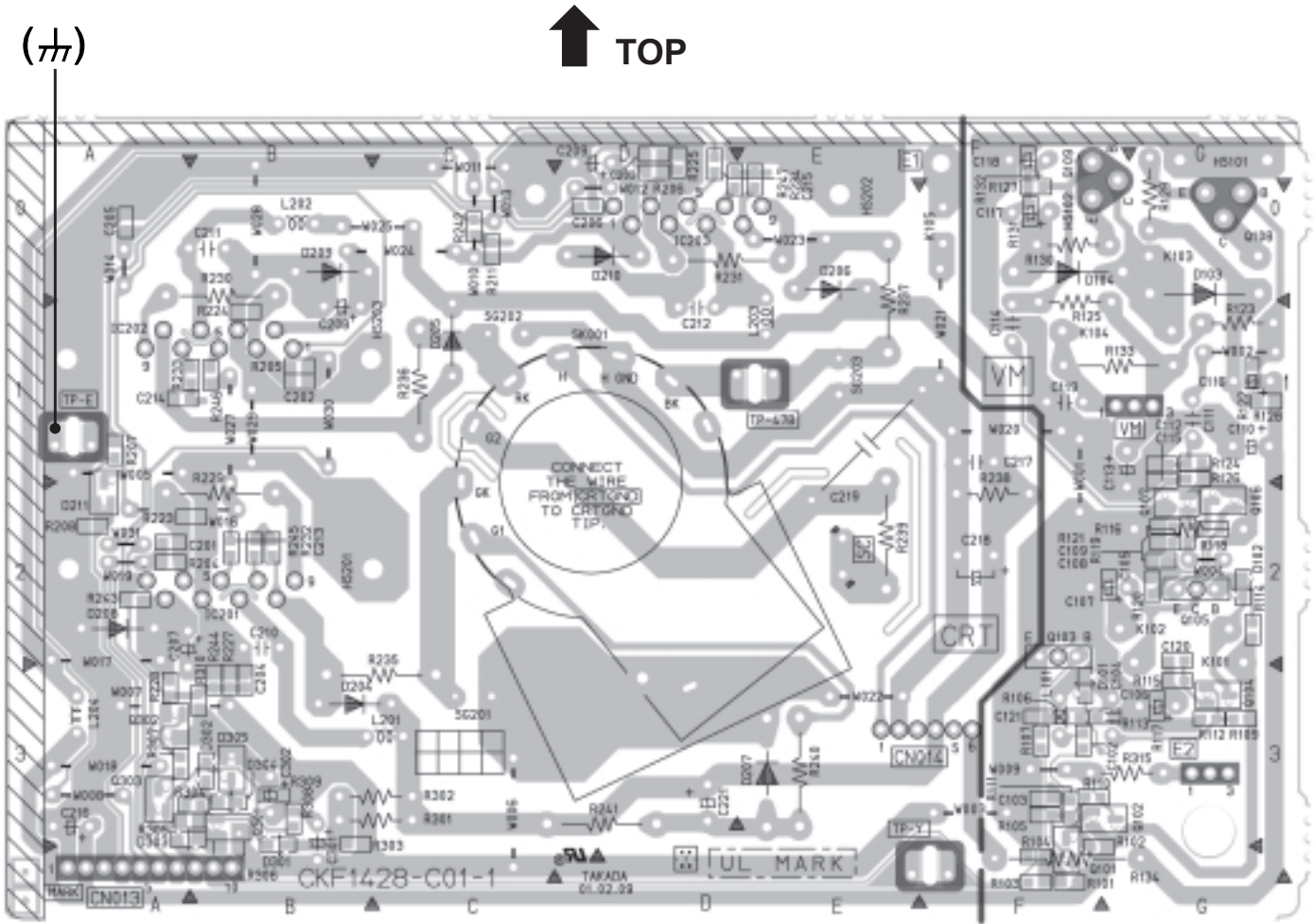
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SEMICONDUCTOR SHAPES

TRANSISTOR					
BOTTOM VIEW	FRONT VIEW				TOP VIEW
					

IC					
BOTTOM VIEW		FRONT VIEW			TOP VIEW
					

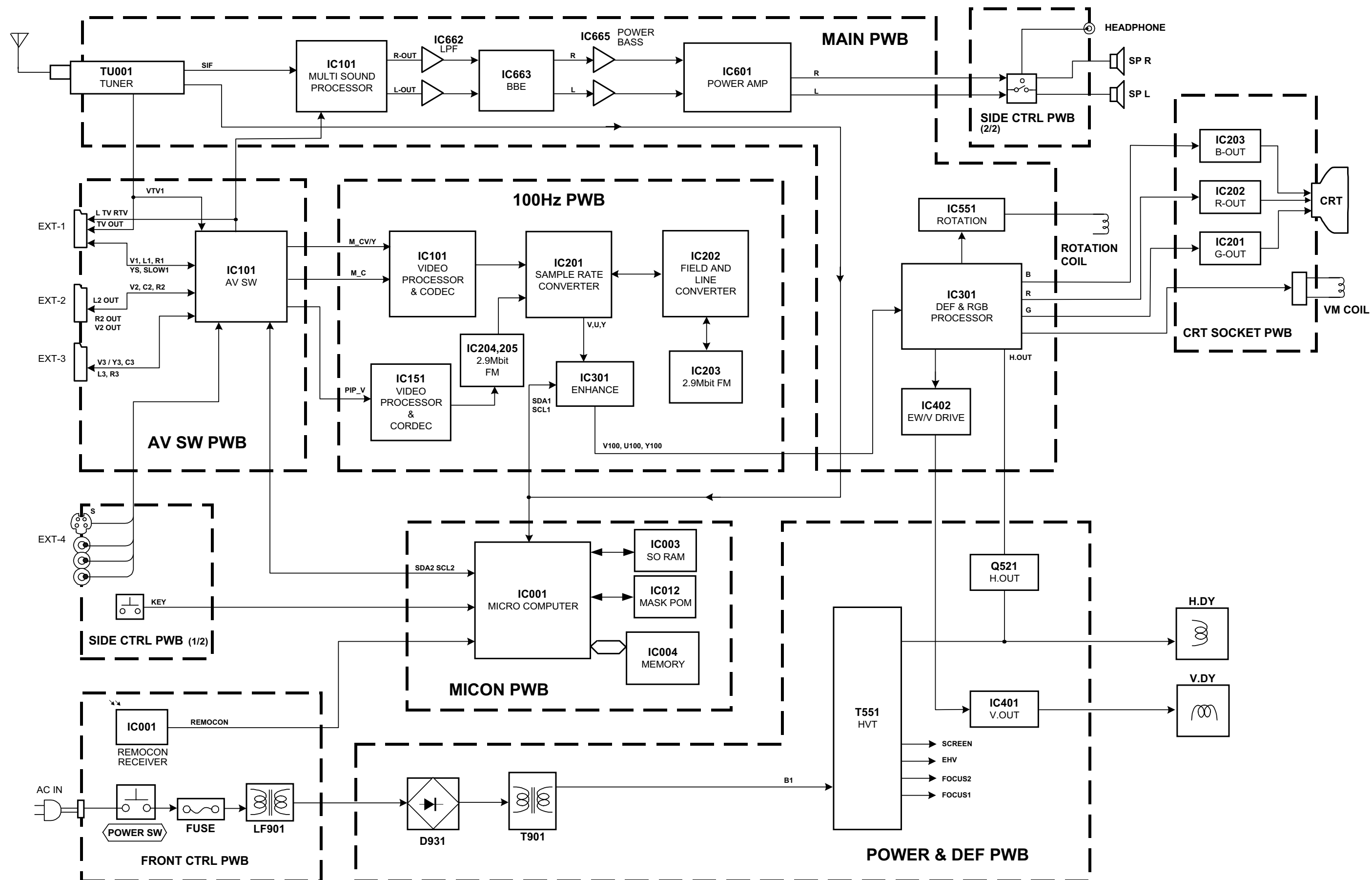
CHIP IC		TOP VIEW	



BLOCK DIAGRAM

AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL

AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL

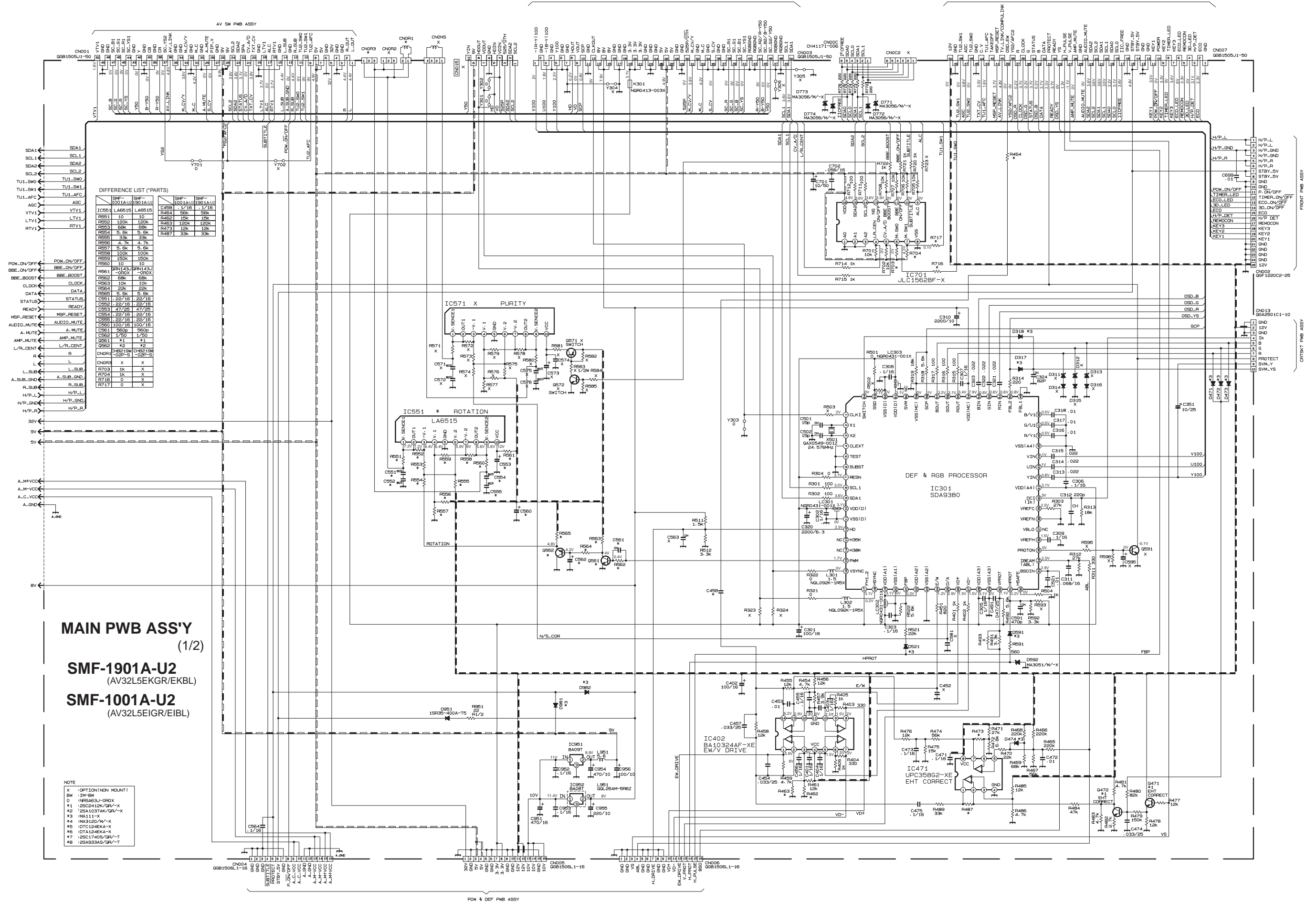


CIRCUIT DIAGRAMS

AV32L5EKGR	AV32L5EKGR
AV32L5EKBL	AV32L5EKBL
AV32L5EIGR	AV32L5EIGR
AV32L5EIBL	AV32L5EIBL

100Hz PWB ASSY

MICON PWB ASSY



No.51779

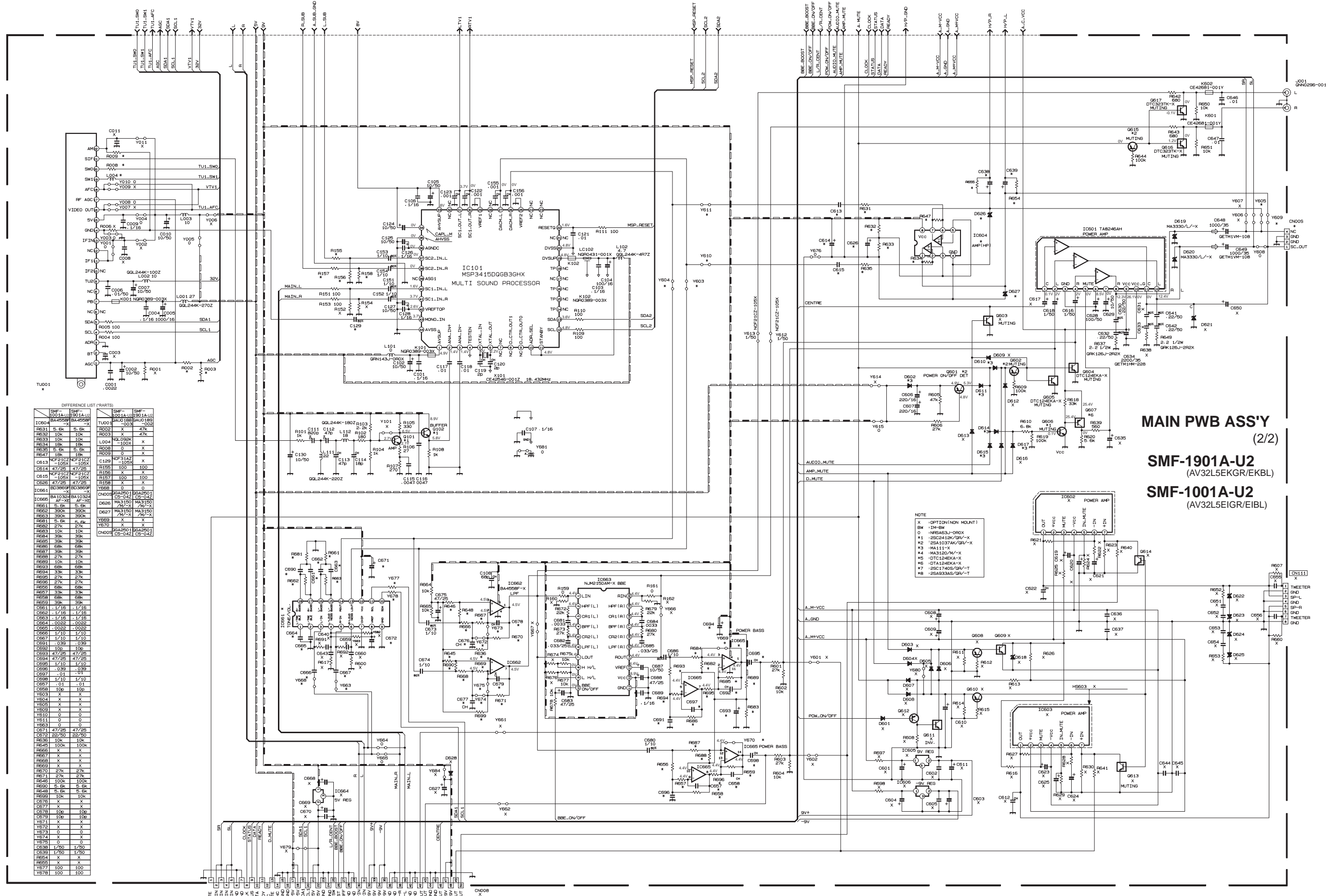
2-5

2-6

No.51779

AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL

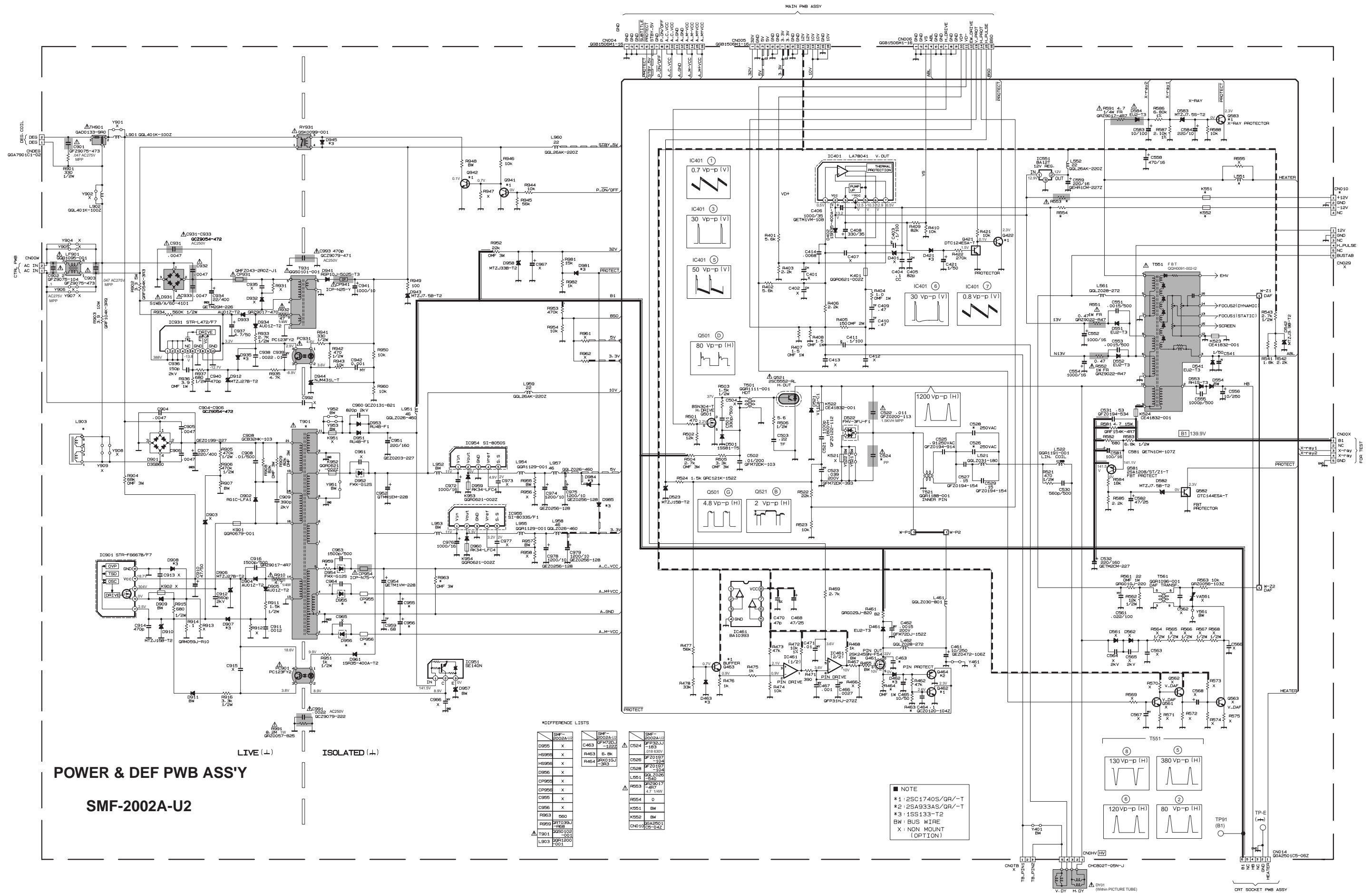
AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL



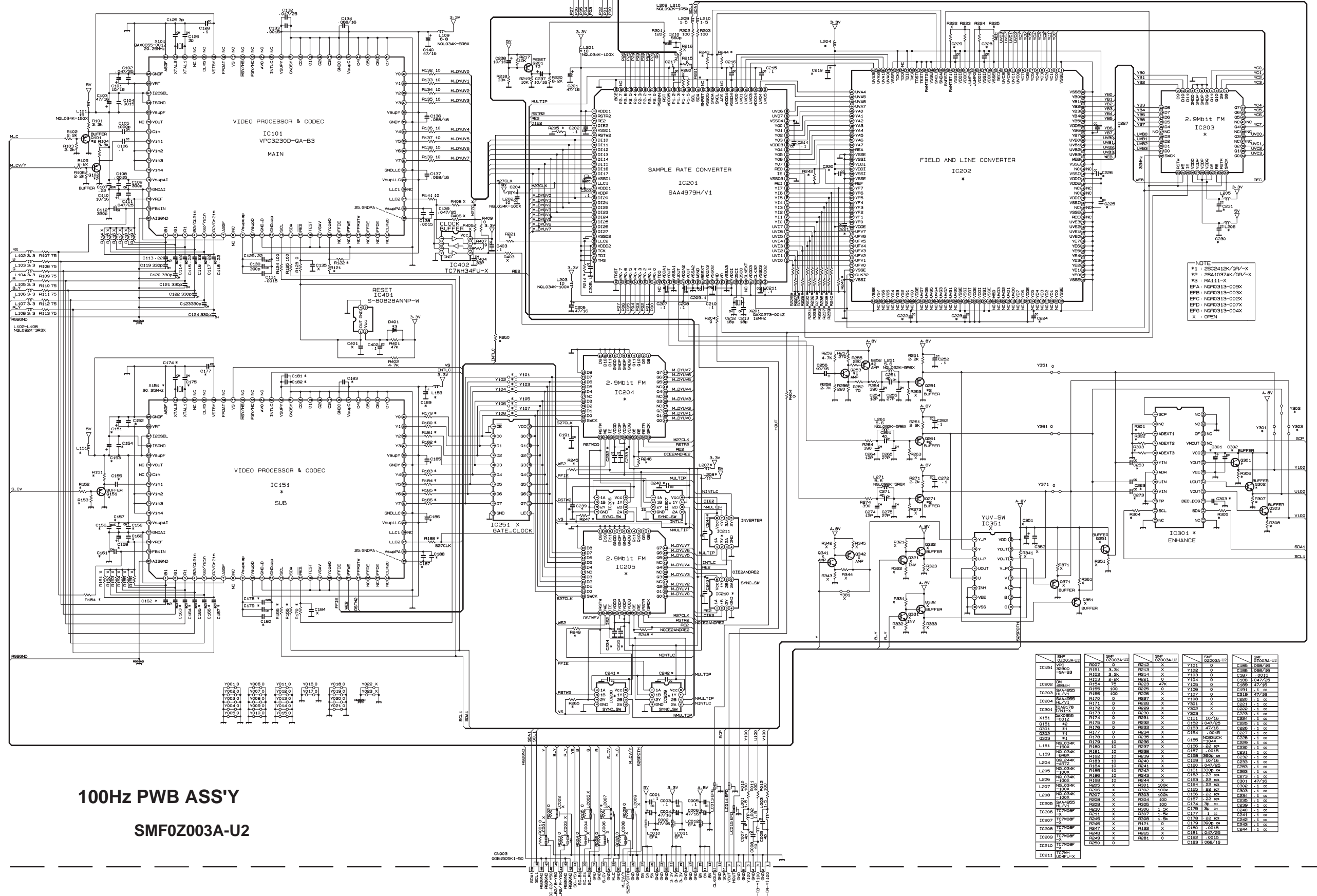
MAIN PWB ASS'Y
(2/2)
SMF-1901A-U2
(AV32L5EKGR/EKBL)
SMF-1001A-U2
(AV32L5EIGR/EIBL)

POWER & DEF PWB CIRCUIT DIAGRAM

AV32L5EKGR	AV32L5EKGR
AV32L5EKBL	AV32L5EKBL
AV32L5EIGR	AV32L5EIGR
AV32L5EIBL	AV32L5EIBL



100Hz PWB CIRCUIT DIAGRAM



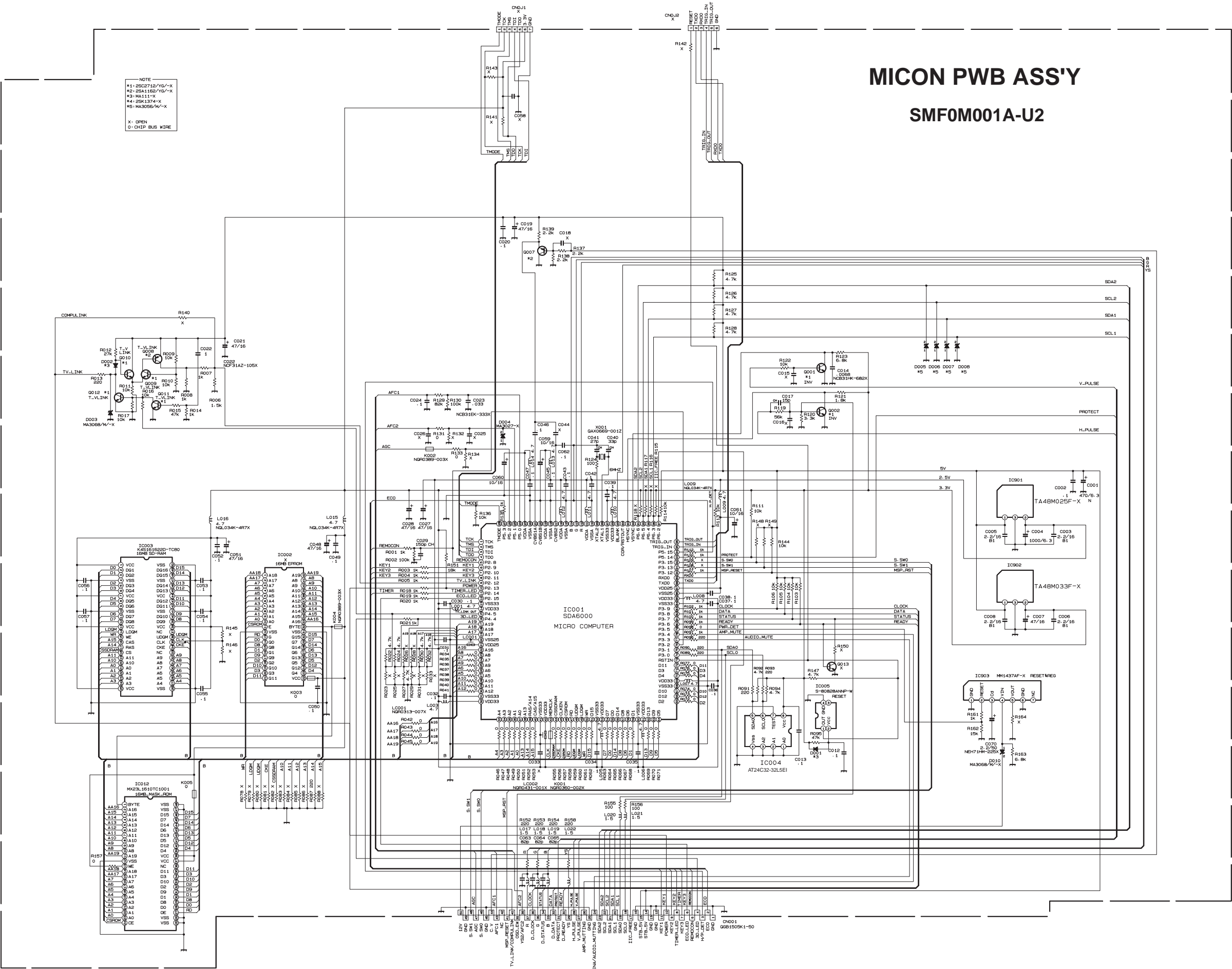
100Hz PWB ASS'Y

SMF0Z003A-U2

AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL

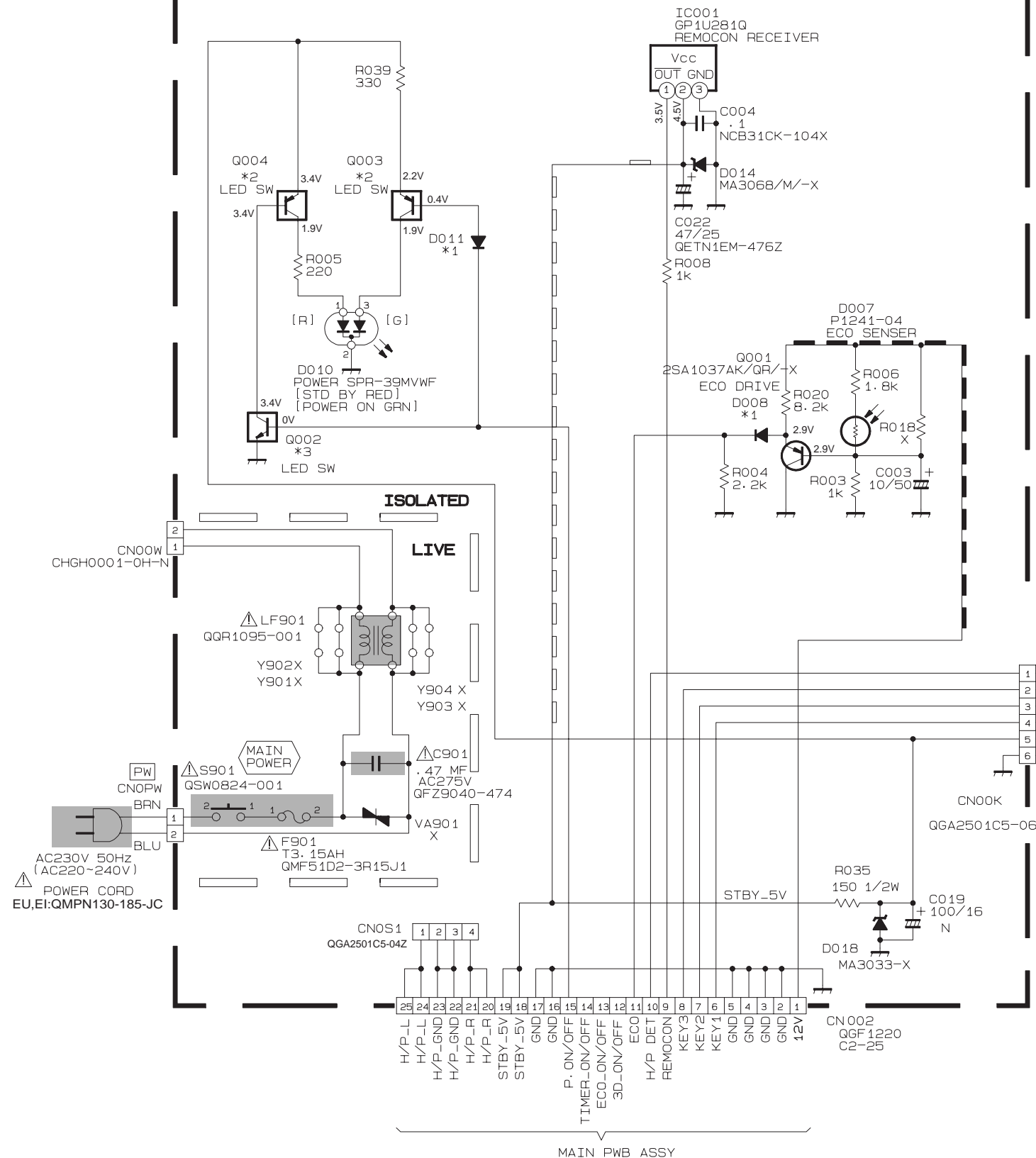
AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL

MICON PWB ASS'Y
SMF0M001A-U2



FRONT CONTROL PWB ASS'Y

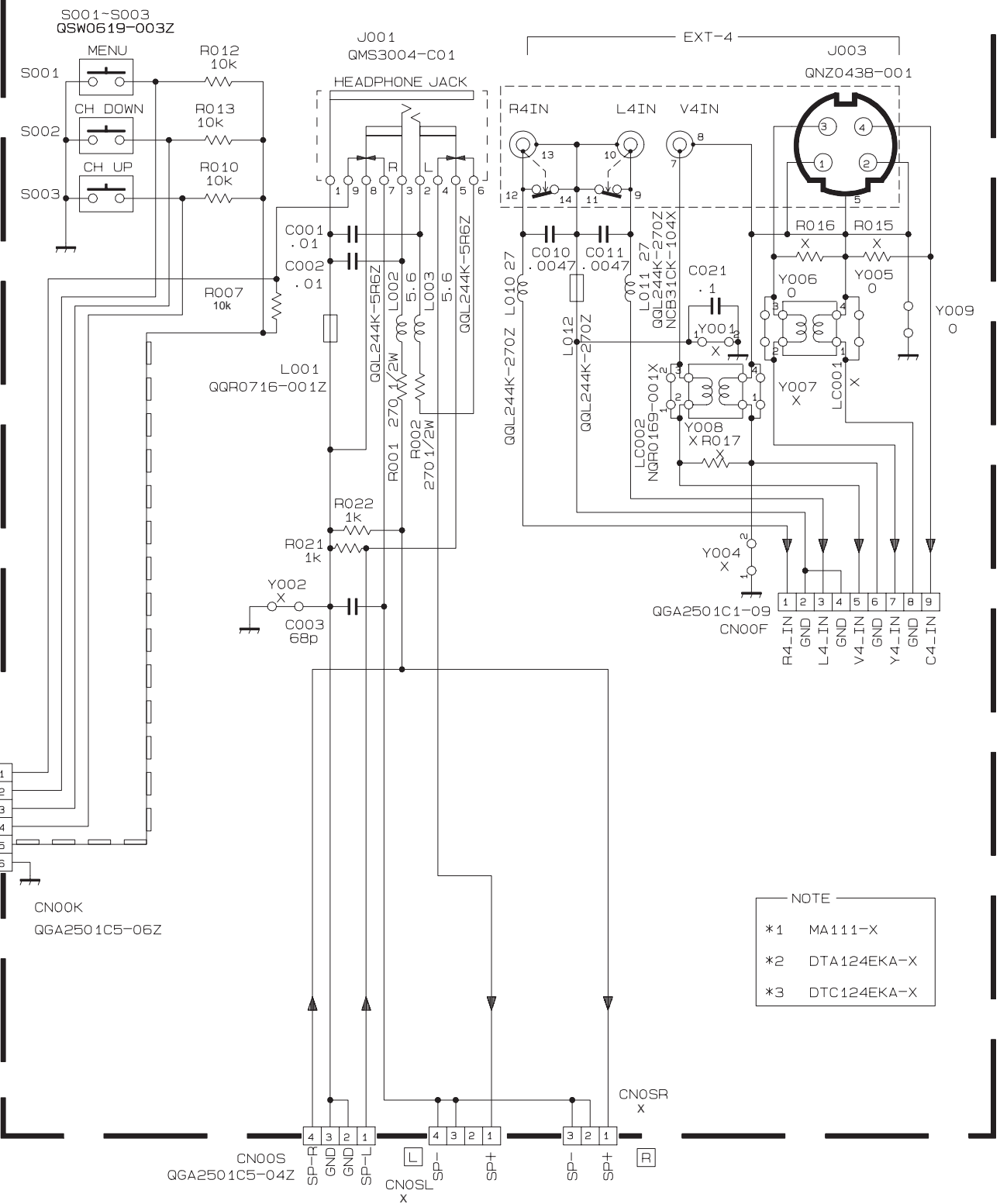
SMF-8008A-U2



No.51779

SIDE CONTROL PWB ASS'Y

SMF-8108A-U2

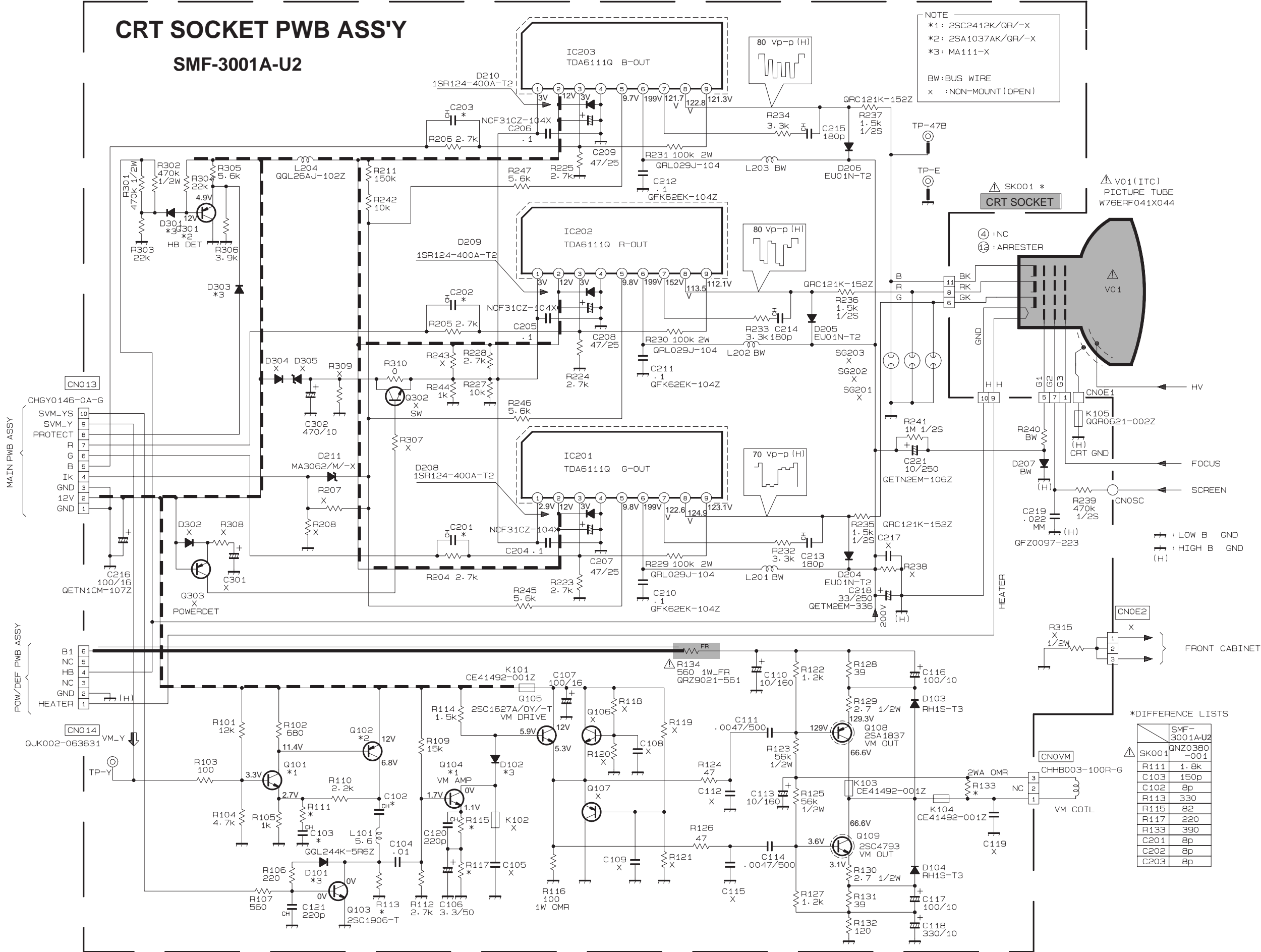


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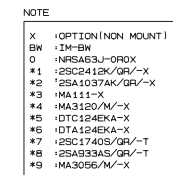
AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL

AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL

CRT SOCKET PWB ASS'Y
SMF-3001A-U2



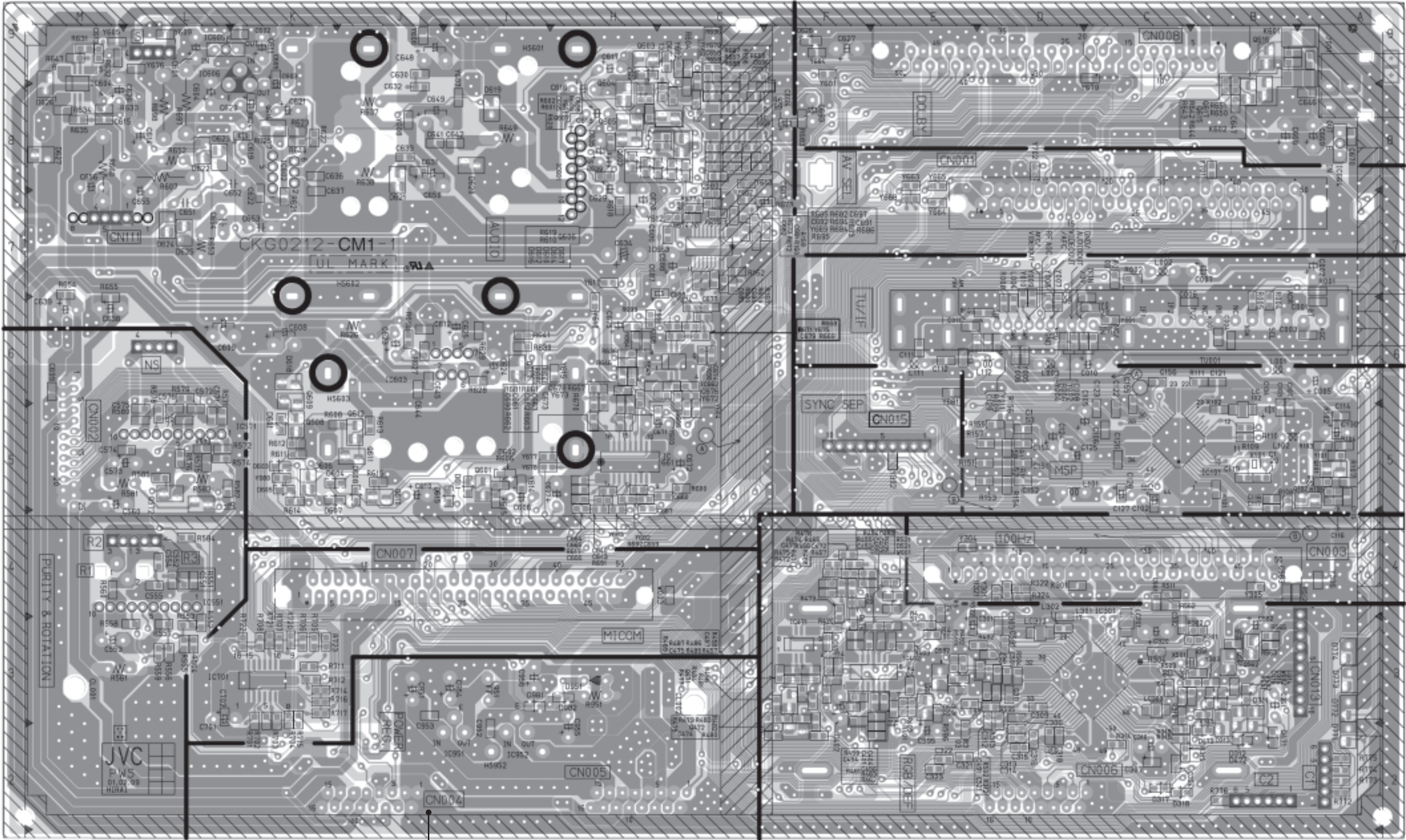
AV SW PWB ASS'Y
SMF0S001A-U2



AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL

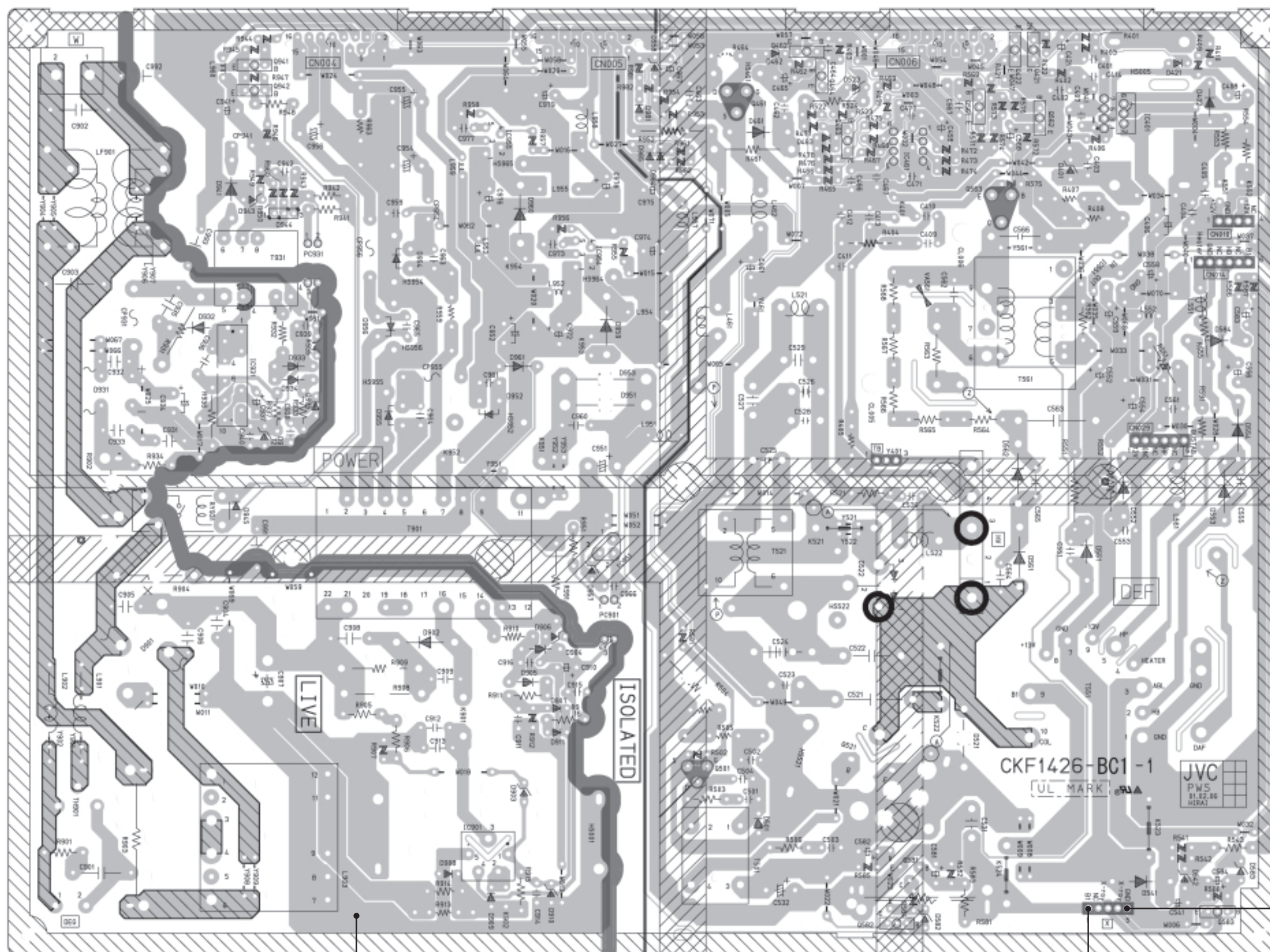
AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL

← FRONT



(77)

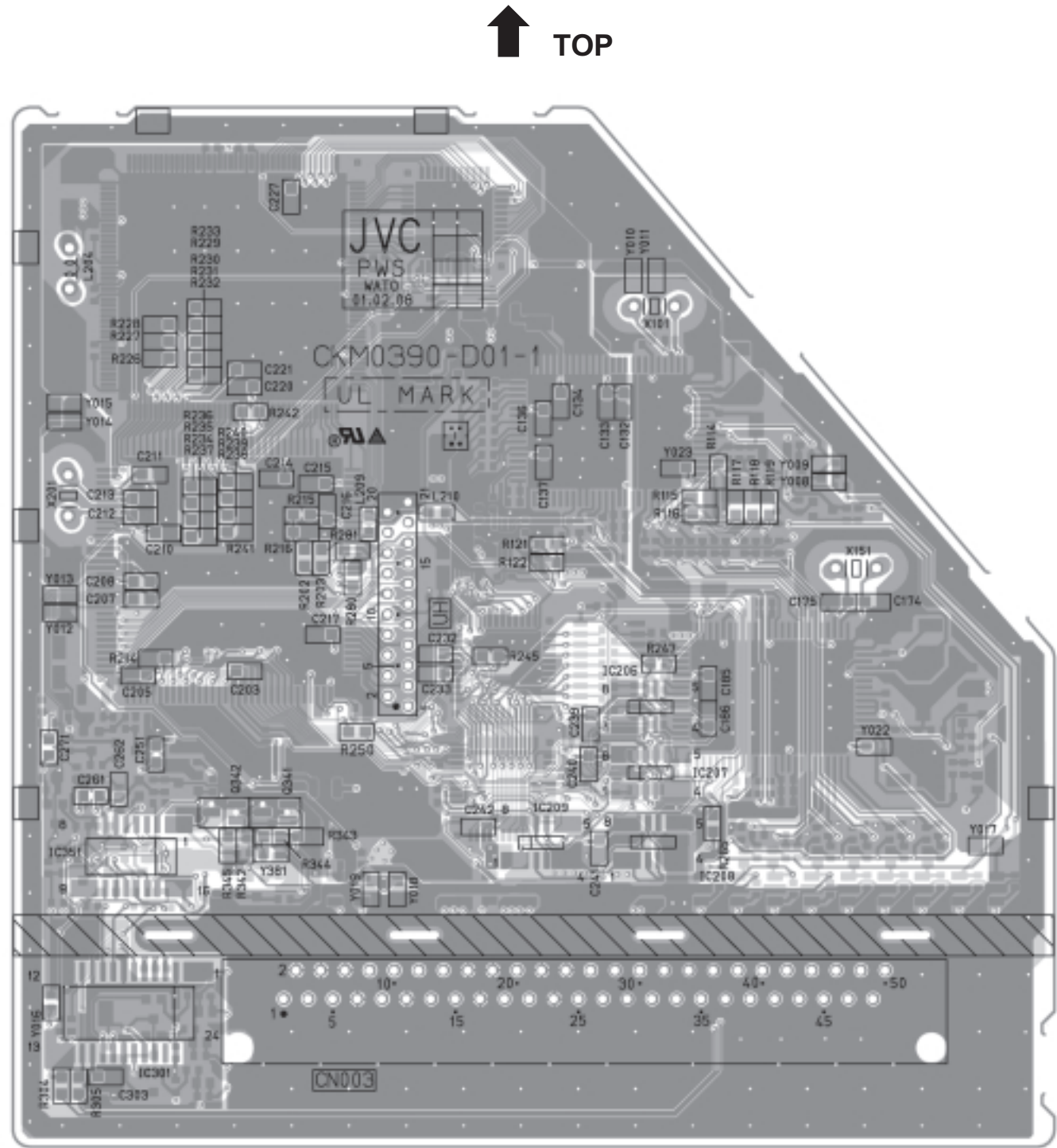
AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL



TP-E
($\pi\pi$)

TP-91(B1)

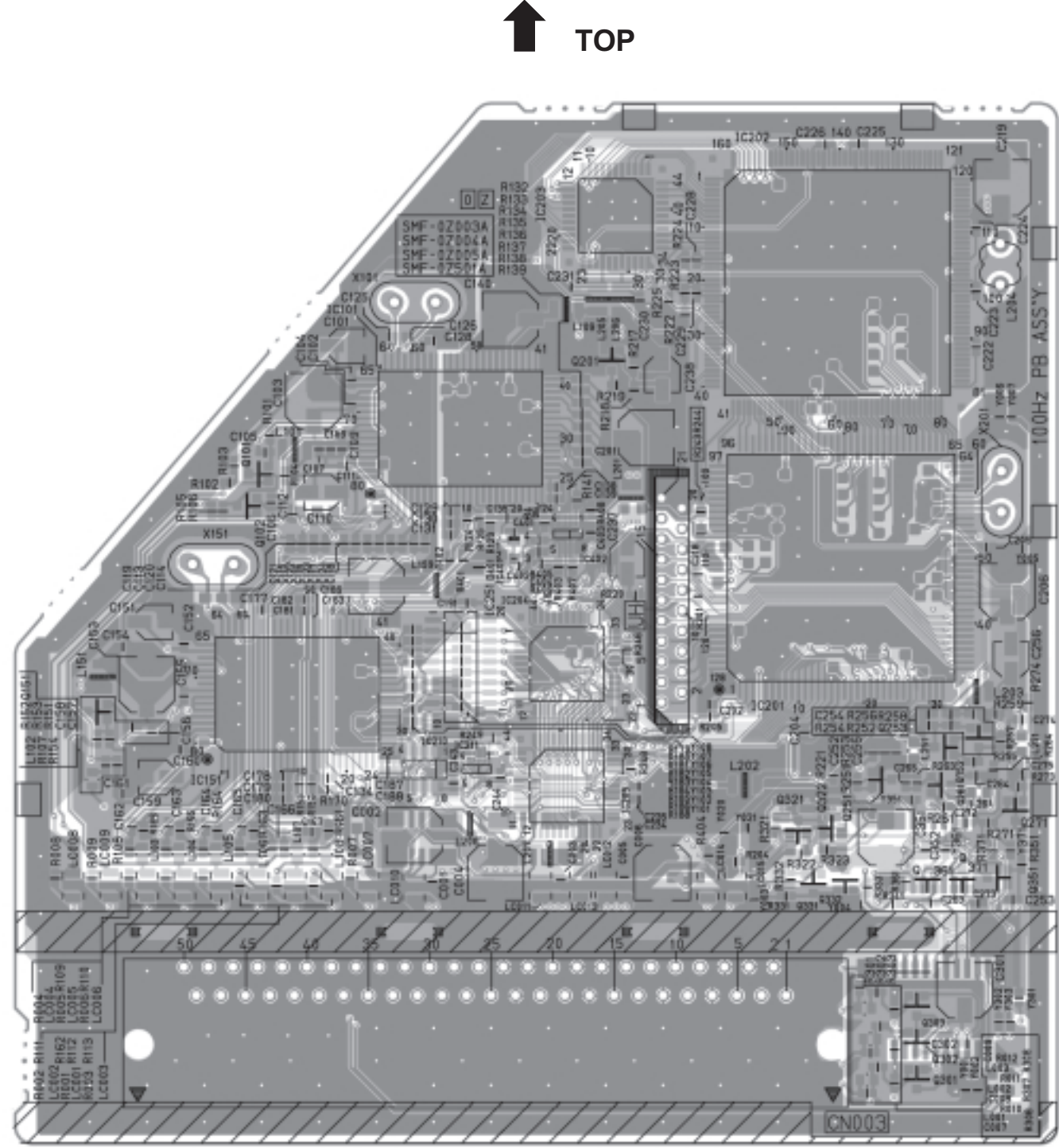
100Hz PWB PATTERN (SOLDER SIDE)



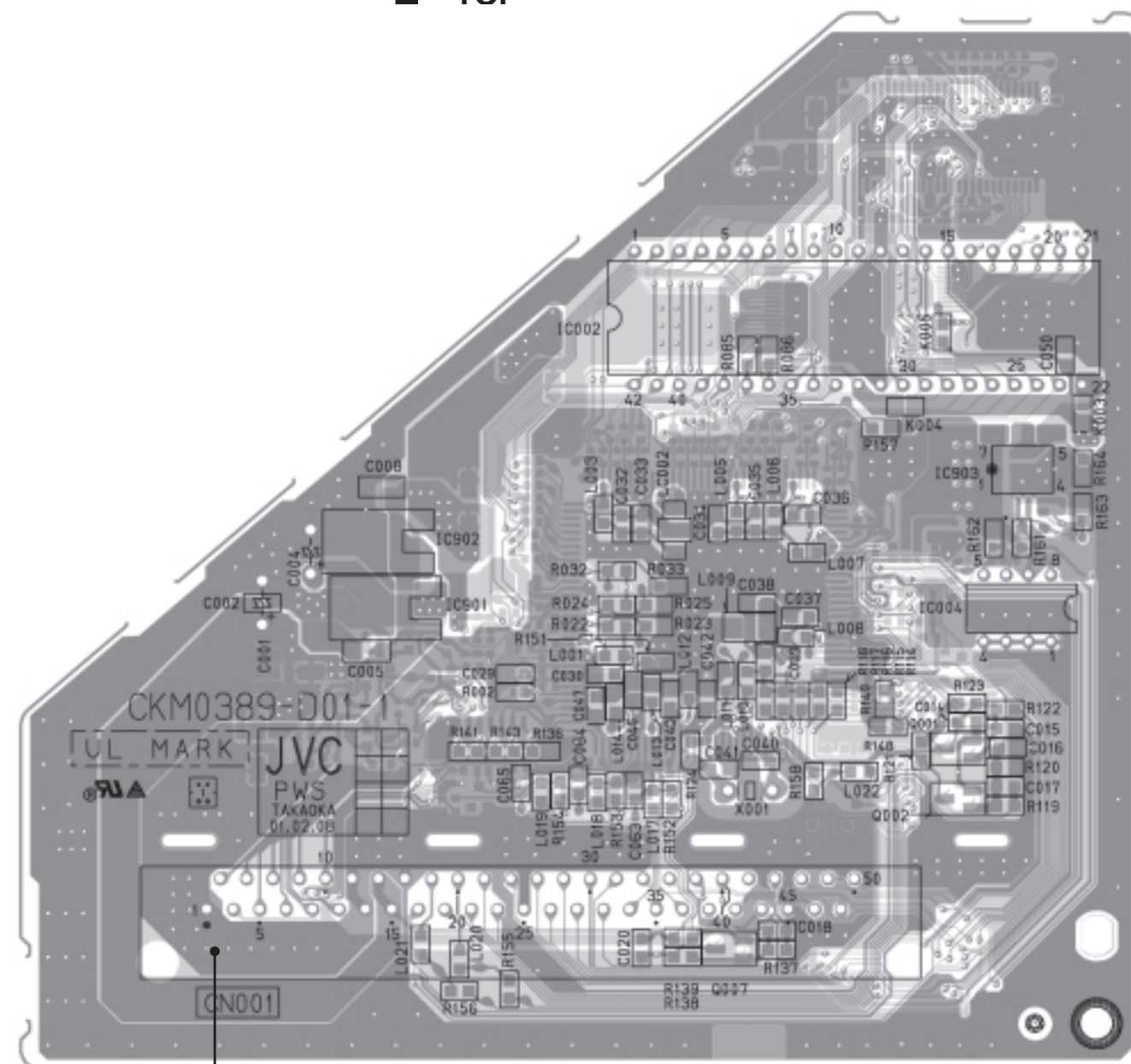
AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL

AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL

100Hz PWB PATTERN (PARTS SIDE)



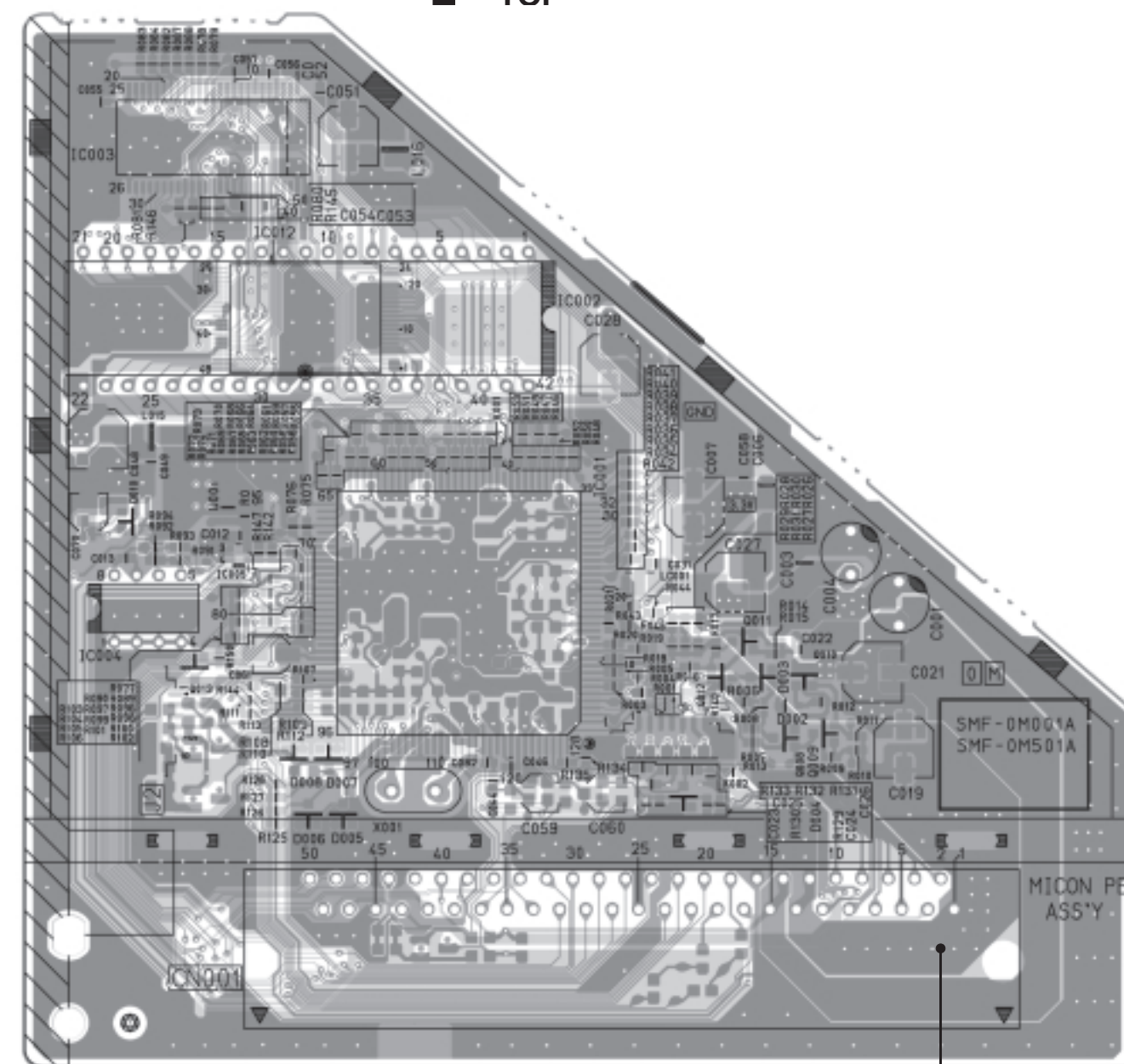
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AV32L5EIBL



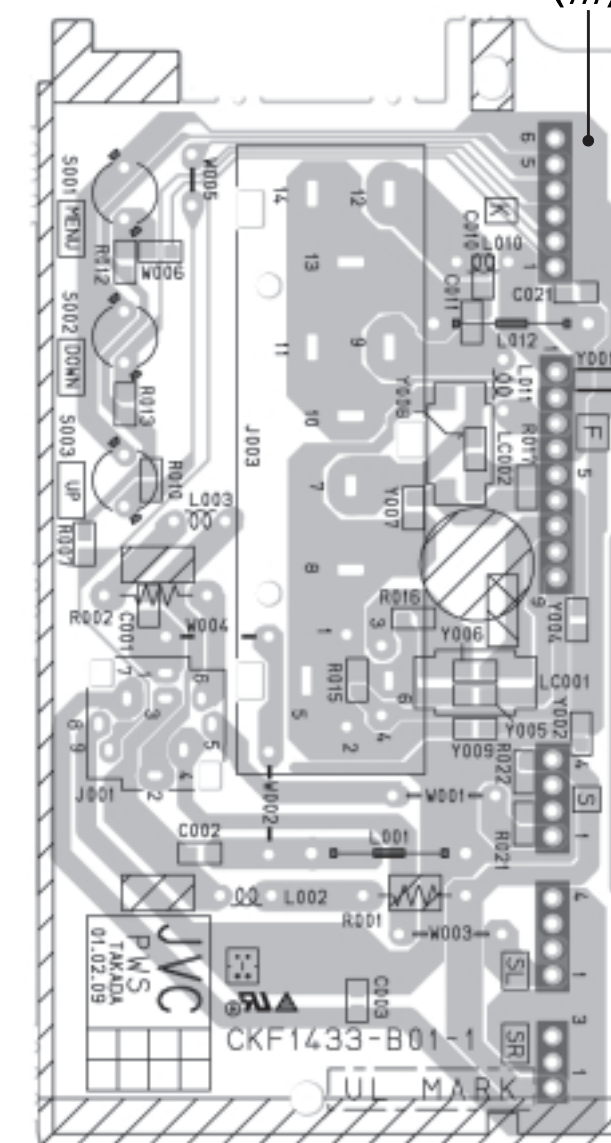
No.51779

AV32L5EKGR
AV32L5EKBL
AV32L5EIGR
AV32L5EIBL

 [TOP](#)




No.51779



PARTS LIST

CAUTION

- The parts identified by the  symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines — in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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AV32L5EKG

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AV32L5EIG

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■ PACKING	50
■ PACKING PARTS LIST	50

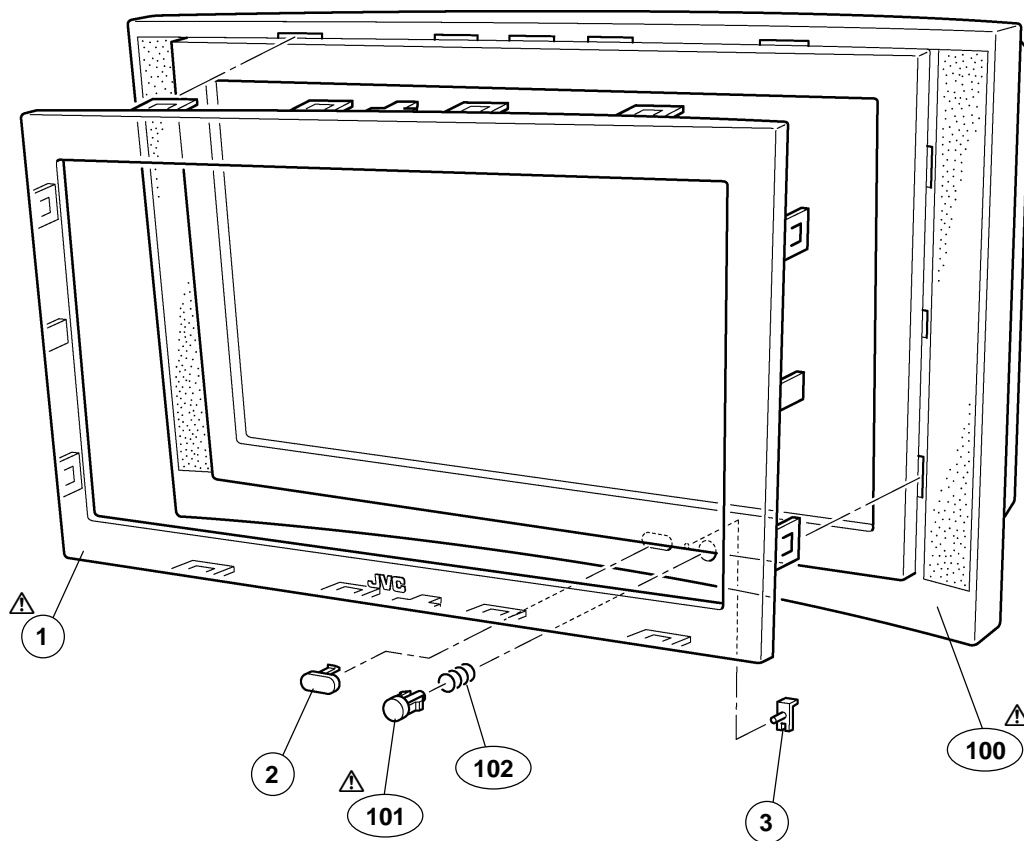
USING PW BOARD & REMOTE CONTROL UNIT

Model	AV32L5EKG	AV32L5EIG
PWB ASS'Y		
MAIN PWB	SMF-1901A-U2	SMF-1001A-U2
POWER & DEF. PWB	SMF-2002A-U2	←
CRT SOCKET PWB	SMF-3001A-U2	←
FRONT CONTROL PWB	SMF-8008A-U2	←
SIDE CONTROL PWB	SMF-8108A-U2	←
MICON PWB	SMF0M001A-U2	←
AV SW PWB	SMF0S001A-U2	←
100Hz PWB	SMF0Z003A-U2	←
REMOTE CONTROL UNIT	RM-C56-2C	←

EXPORTED VIEW PARTS LIST (1)

△ Ref.No.	Part No.	Part Name	Description
AV32L5EKG / AV32L5EIG			
△ 1	LC10851-002B-U	FRONT PANEL	
2	LC31203-001B-C	REMOCON WINDOW	
3	LC31202-001A-C	L.E.D.LENS	
△ 100	LC10854-001C-U	FRONT CABI ASSY	Inc.No.101~102 (SERVICE)
△ 101	LC31201-002A-U	POWER KNOB	
102	AEM3149-001-E	SPRING	

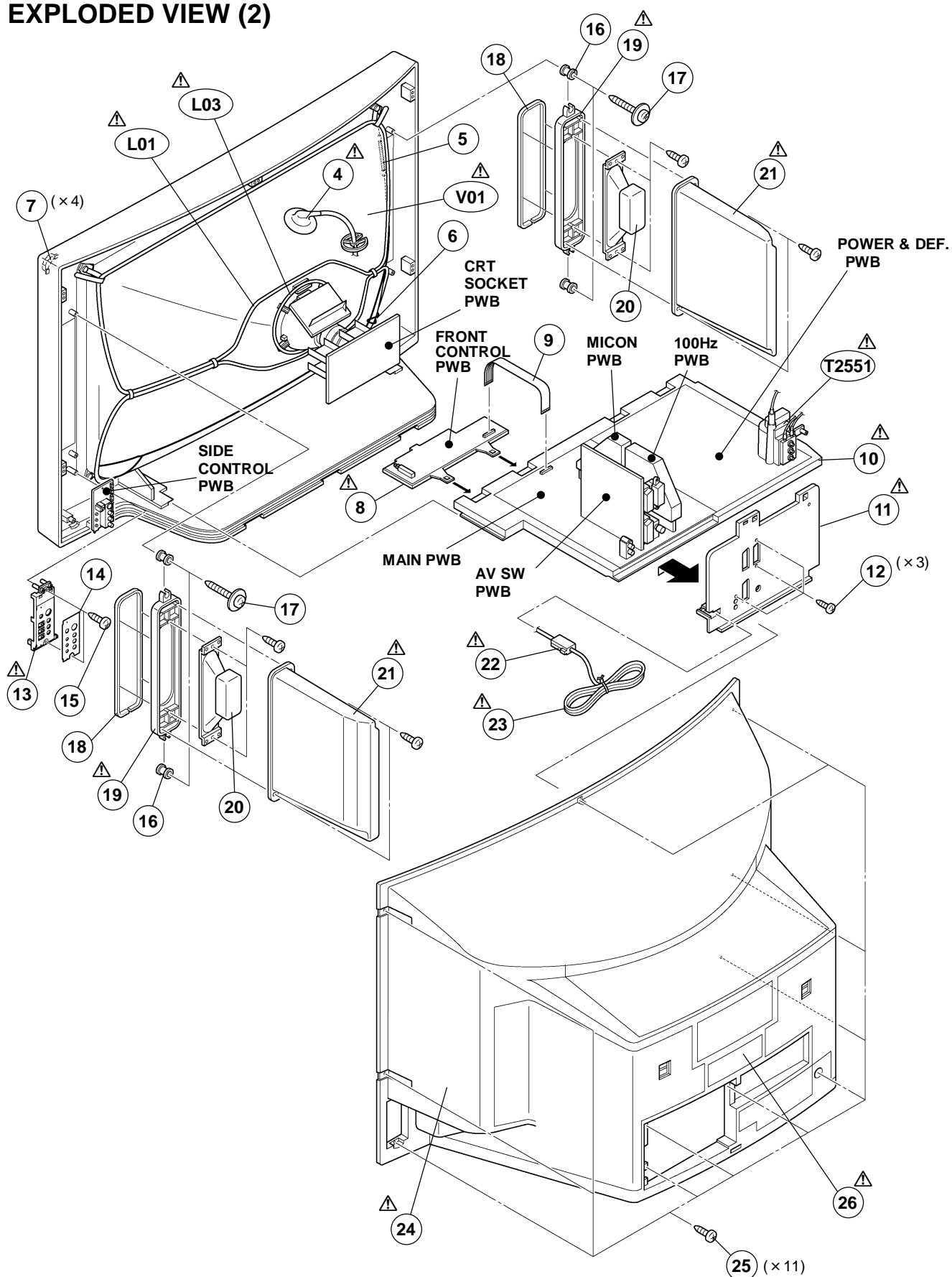
EXPLODED VIEW (1)



EXPLODED VIEW PARTS LIST (2)

△ Ref.No.	Part No.	Part Name	Description
AV32L5EKG / AV32L5EIG			
△ V01	W76ERF041X044	CRT	Inc.DY,PC MAGNET, WEDGE
△ L01	QQW0066-001	DEG.COIL	
△ L03	CELD904-001	ROTATION COIL	
△ T2551	QQH0091-002-I2	FBT	(SERVICE)With ANODE WIRE
△ 4	QNZ0369-001	ANODE WIRE	
5	WJY0001-010A	BRAIDED ASSY	
6	WJY0013-002A	BRAIDED SUB ASSY	
7	LC20508-001D-U	ADAPTER	(×4)
△ 8	LC11009-002A-U	CONTROL BASE	
9	CHFD125-18BD	FFC WIRE	
△ 10	LC10716-002F-U	CHASSIS BASE	
△ 11	LC10717-006B-U	TERMINAL BOARD	
12	QYSBSB3012M	TAPPING SCREW	(×3)
△ 13	LC10856-001C-U	SIDE CONT BASE	
14	LC31205-002A-U	CONTROL SHEET	
15	QYSBSAG4016N	TAPPING SCREW	(×1)For SIDE CONT.BASE
16	AEM4087-001-E	BUSHING	(×4)
17	LC40506-001A	TAPPING SCREW	(×4)
18	AEM3029-A16-E	STICK SHEET	(×4)
△ 19	LC11017-001A-U	SPEAKER ADAPTER	(×2)
20	QAS0072-001	SPEAKER	(×2)SP01,SP02
△ 21	LC10858-001B-U	SPEAKER BOX	(×2)
△ 22	CM46618-A01-E	POWER CORD CLAMP	
△ 23	QMPN130-185-JC	POWER CORD	(CN-PW)
△ 24	LC10853-002E-U	REAR COVER	
25	QYSBSAG4016N	TAPPING SCREW	(×11)For REAR COVER
△ 26	LC20091-024A-U	RATING LABEL	[AV32L5EKG]
△ 26	LC20091-042A-U	RATING LABEL	[AV32L5EIG]

EXPLODED VIEW (2)



AV32L5EKGY

PRINTED WIRING BOARD PARTS LIST

■ MAIN P.W. BOARD ASS'Y (SMF-1901A-U2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1002-03	NRSA63J-473X	MG R	47kΩ 1/16W J
R1004-05	NRSA63J-101X	MG R	100Ω 1/16W J
R1101	NRSA63J-102X	MG R	1kΩ 1/16W J
R1102	NRSA63J-181X	MG R	180Ω 1/16W J
R1103	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R1104	NRSA63J-102X	MG R	1kΩ 1/16W J
R1105	NRSA63J-181X	MG R	180Ω 1/16W J
R1106	NRSA63J-270X	MG R	27Ω 1/16W J
R1107	NRSA63J-271X	MG R	270Ω 1/16W J
R1108	NRSA63J-102X	MG R	1kΩ 1/16W J
R1109-11	NRSA63J-101X	MG R	100Ω 1/16W J
R1151	NRSA63J-101X	MG R	100Ω 1/16W J
R1153	NRSA63J-101X	MG R	100Ω 1/16W J
R1155	NRSA63J-101X	MG R	100Ω 1/16W J
R1157	NRSA63J-101X	MG R	100Ω 1/16W J
R1159	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1161	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1301-02	NRSA63J-101X	MG R	100Ω 1/16W J
R1303	NRSA63J-273X	MG R	27kΩ 1/16W J
R1304	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1311	NRSA63J-331X	MG R	330Ω 1/16W J
R1312	NRSA63J-273X	MG R	27kΩ 1/16W J
R1313	NRSA63J-183X	MG R	18kΩ 1/16W J
R1314	NRSA63J-221X	MG R	220Ω 1/16W J
R1315-17	NRSA63J-101X	MG R	100Ω 1/16W J
R1318	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1319	NRSA63J-183X	MG R	18kΩ 1/16W J
R1321-22	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1401-02	NRSA63J-102X	MG R	1kΩ 1/16W J
R1403-04	NRSA63J-331X	MG R	330Ω 1/16W J
R1405-06	NRSA63J-102X	MG R	1kΩ 1/16W J
R1451	NRSA63J-821X	MG R	820Ω 1/16W J
R1454	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1455-56	NRSA63J-123X	MG R	12kΩ 1/16W J
R1457	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R1458	NRSA63J-123X	MG R	12kΩ 1/16W J
R1459	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1461	NRSA63J-123X	MG R	12kΩ 1/16W J
R1462	NRSA63J-153X	MG R	15kΩ 1/16W J
R1463	NRSA63J-124X	MG R	120kΩ 1/16W J
R1464	QRE141J-563Y	C R	56kΩ 1/4W J
R1465-66	NRSA63J-224X	MG R	220kΩ 1/16W J
R1467	NRSA63J-563X	MG R	56kΩ 1/16W J
R1468	NRSA63J-224X	MG R	220kΩ 1/16W J
R1469	NRSA63J-683X	MG R	68kΩ 1/16W J
R1470	NRSA63J-223X	MG R	22kΩ 1/16W J
R1471	NRSA63J-273X	MG R	27kΩ 1/16W J
R1472	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1473	NRSA63J-123X	MG R	12kΩ 1/16W J
R1474	NRSA63J-563X	MG R	56kΩ 1/16W J
R1475	NRSA63J-153X	MG R	15kΩ 1/16W J
R1476-78	NRSA63J-123X	MG R	12kΩ 1/16W J
R1479	NRSA63J-154X	MG R	150kΩ 1/16W J
R1480	NRSA63J-823X	MG R	82kΩ 1/16W J
R1481	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1482	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R1483	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1484	NRSA63J-473X	MG R	47kΩ 1/16W J
R1485	NRSA63J-123X	MG R	12kΩ 1/16W J
R1486	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1487	NRSA63J-333X	MG R	33kΩ 1/16W J
R1489	NRSA63J-333X	MG R	33kΩ 1/16W J
R1491	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R1492	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1501	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1504	NRSA63J-102X	MG R	1kΩ 1/16W J

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1511	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R1512	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R1521	NRSA63J-223X	MG R	22kΩ 1/16W J
R1522	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1551	NRSA63J-100X	MG R	10Ω 1/16W J
R1552	NRSA63J-124X	MG R	120kΩ 1/16W J
R1553	NRSA63J-683X	MG R	68kΩ 1/16W J
R1554	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1555	NRSA63J-333X	MG R	33kΩ 1/16W J
R1556	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1557	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1558	NRSA63J-104X	MG R	100kΩ 1/16W J
R1559	NRSA63J-154X	MG R	150kΩ 1/16W J
R1560	NRSA63J-100X	MG R	10Ω 1/16W J
R1561	QRN143J-0R0X	C R	0.0Ω 1/4W J
R1562	NRSA63J-683X	MG R	68kΩ 1/16W J
R1563	NRSA63J-103X	MG R	10kΩ 1/16W J
R1564	NRSA63J-223X	MG R	22kΩ 1/16W J
R1565	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1591	NRSA63J-561X	MG R	560Ω 1/16W J
R1592	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R1601	NRSA63J-273X	MG R	27kΩ 1/16W J
R1602	NRSA63J-103X	MG R	10kΩ 1/16W J
R1603	NRSA63J-273X	MG R	27kΩ 1/16W J
R1604	NRSA63J-103X	MG R	10kΩ 1/16W J
R1605	NRSA63J-473X	MG R	47kΩ 1/16W J
R1606	NRSA63J-273X	MG R	27kΩ 1/16W J
R1609	NRSA63J-104X	MG R	100kΩ 1/16W J
R1610	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1618	NRSA63J-333X	MG R	33kΩ 1/16W J
R1619	NRSA63J-104X	MG R	100kΩ 1/16W J
R1620	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1631	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1632-33	NRSA63J-103X	MG R	10kΩ 1/16W J
R1634	NRSA63J-183X	MG R	18kΩ 1/16W J
R1635	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1636	NRSA63J-103X	MG R	10kΩ 1/16W J
R1637	QRK126J-2R2X	C R	2.2Ω 1/2W J
R1639	NRSA63J-561X	MG R	560Ω 1/16W J
R1642-43	NRSA63J-681X	MG R	680Ω 1/16W J
R1644-46	NRSA63J-104X	MG R	100kΩ 1/16W J
R1647	NRSA63J-183X	MG R	18kΩ 1/16W J
R1648	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1649	QRK126J-2R2X	C R	2.2Ω 1/2W J
R1650-51	NRSA63J-103X	MG R	10kΩ 1/16W J
R1656	NRSA63J-683X	MG R	68kΩ 1/16W J
R1657	NRSA63J-333X	MG R	33kΩ 1/16W J
R1658	NRSA63J-683X	MG R	68kΩ 1/16W J
R1659	NRSA63J-393X	MG R	39kΩ 1/16W J
R1661	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1662-63	NRSA63J-394X	MG R	390kΩ 1/16W J
R1664-65	NRSA63J-103X	MG R	10kΩ 1/16W J
R1670-71	NRSA63J-273X	MG R	27kΩ 1/16W J
R1672	NRSA63J-223X	MG R	22kΩ 1/16W J
R1673	NRSA63J-273X	MG R	27kΩ 1/16W J
R1675	NRSA63J-103X	MG R	10kΩ 1/16W J
R1677-78	NRSA63J-103X	MG R	10kΩ 1/16W J
R1679	NRSA63J-223X	MG R	22kΩ 1/16W J
R1680	NRSA63J-273X	MG R	27kΩ 1/16W J
R1681	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1682	NRSA63J-273X	MG R	27kΩ 1/16W J
R1683	NRSA63J-103X	MG R	10kΩ 1/16W J
R1684-85	NRSA63J-393X	MG R	39kΩ 1/16W J
R1686	NRSA63J-683X	MG R	68kΩ 1/16W J
R1687	NRSA63J-393X	MG R	39kΩ 1/16W J
R1688	NRSA63J-273X	MG R	27kΩ 1/16W J

Symbol No.	Part No.	Part Name	Description
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RESISTOR

R1689	NRSA63J-103X	MG R	10kΩ 1/16W J
R1690	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1693	NRSA63J-683X	MG R	68kΩ 1/16W J
R1694	NRSA63J-333X	MG R	33kΩ 1/16W J
R1695-96	NRSA63J-273X	MG R	27kΩ 1/16W J
R1699	NRSA63J-103X	MG R	10kΩ 1/16W J
R1701-02	NRSA63J-103X	MG R	10kΩ 1/16W J
R1705-08	NRSA63J-103X	MG R	10kΩ 1/16W J
R1711-12	NRSA63J-101X	MG R	100Ω 1/16W J
R1714-15	NRSA63J-102X	MG R	1kΩ 1/16W J
R1720-22	NRSA63J-102X	MG R	1kΩ 1/16W J
R1772-76	NRSA63J-221X	MG R	220Ω 1/16W J
R1951	QRK126J-220X	C R	22Ω 1/2W J

CAPACITOR

C1001	NCB31HK-222X	CHIP CAP.	2200pF 50V K
C1002	QETN1HM-106Z	E CAP.	10μF 50V M
C1004	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1005	QETN1CM-108Z	E CAP.	1000μF 16V M
C1006	NCB31HK-103X	C CAP.	0.01μF 50V K
C1007	QETN1HM-106Z	E CAP.	10μF 50V M
C1009	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1010	QETN1HM-106Z	E CAP.	10μF 50V M
C1101	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1102	QETN1HM-106Z	E CAP.	10μF 50V M
C1103	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1104	QETN1CM-107Z	E CAP.	100μF 16V M
C1105	QETN1HM-106Z	E CAP.	10μF 50V M
C1106-07	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1108	NDC31HJ-680X	C CAP.	68pF 50V J
C1111	NDC31HJ-820X	C CAP.	82pF 50V J
C1112-13	NDC31HJ-470X	C CAP.	47pF 50V J
C1114	NDC31HJ-180X	C CAP.	18pF 50V J
C1115-16	NCB31HK-472X	C CAP.	4700pF 50V K
C1117-18	NCB31HK-103X	C CAP.	0.01μF 50V K
C1119-20	NDC31HJ-2R0X	C CAP.	2.0pF 50V J
C1121	NCB31HK-103X	C CAP.	0.01μF 50V K
C1122-23	NDC31HJ-102X	C CAP.	1000pF 50V J
C1124-25	QETN1HM-106Z	E CAP.	10μF 50V M
C1126	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1127	QETN1HM-106Z	E CAP.	10μF 50V M
C1128	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1130	QETN1HM-106Z	E CAP.	10μF 50V M
C1151-54	NCF31AZ-105X	C CAP.	1μF 10V Z
C1155-56	NDC31HJ-102X	C CAP.	1000pF 50V J
C1301	QETN1CM-107Z	E CAP.	100μF 16V M
C1302-03	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1305-09	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1310	QETN1AM-228Z	E CAP.	2200μF 10V M
C1311	NCB31CK-683X	CHIP CAP.	0.068μF 16V K
C1312	NDC31HJ-221X	C CAP.	220pF 50V J
C1313-15	NCB31HK-223X	CHIP CAP.	0.022μF 50V K
C1316-18	NCB31HK-103X	C CAP.	0.01μF 50V K
C1320	QETN0JM-228Z	E CAP.	2200μF 6.3V M
C1321-23	NCB31HK-223X	CHIP CAP.	0.022μF 50V K
C1324	NDC31HJ-820X	C CAP.	82pF 50V J
C1351	QENC1EM-106Z	BP E CAP.	10μF 25V M
C1401	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1402	QETN1CM-107Z	E CAP.	100μF 16V M
C1403-04	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1453	NCB31HK-103X	C CAP.	0.01μF 50V K
C1454	NCB31EK-333X	CHIP CAP.	0.033μF 25V K
C1455-56	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1457	NCB31EK-333X	CHIP CAP.	0.033μF 25V K
C1458	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1471	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1472	NCB31HK-103X	C CAP.	0.01μF 50V K
C1473	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1474	NCB31EK-333X	CHIP CAP.	0.033μF 25V K
C1475	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1491	NCB31EK-473X	CHIP CAP.	0.047μF 25V K

Symbol No.	Part No.	Part Name	Description
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CAPACITOR

C1501-02	NDC31HJ-150X	C CAP.	15pF 50V J
C1521	NCB31HK-103X	C CAP.	0.01μF 50V K
C1551-52	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C1553	QETN1EM-476Z	E CAP.	47μF 25V M
C1554-55	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C1560	QETN1CM-107Z	E CAP.	100μF 16V M
C1561	NDC31HJ-561X	C CAP.	560pF 50V J
C1562	QETN1HM-105Z	E CAP.	1μF 50V M
C1564	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1591	NDC31HJ-471X	C CAP.	470pF 50V J
C1606-07	QETN1CM-227Z	E CAP.	220μF 16V M
C1613	NCF21CZ-105X	C CAP.	1μF 16V Z
C1614	QETN1EM-476Z	E CAP.	47μF 25V M
C1615	NCF21CZ-105X	C CAP.	1μF 16V Z
C1616	QETN1HM-105Z	E CAP.	1μF 50V M
C1618	QETN1HM-105Z	E CAP.	1μF 50V M
C1626	QETN1EM-476Z	E CAP.	47μF 25V M
C1628	QETN1HM-107Z	E CAP.	100μF 50V M
C1629	QETN1HM-106Z	E CAP.	10μF 50V M
C1630	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1632	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1634	QETN1HM-228	E CAP.	2200μF 50V M
C1638-39	QETN1HM-105Z	E CAP.	1μF 50V M
C1641-42	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1646-47	NCB31HK-103X	C CAP.	0.01μF 50V K
C1648-49	QETN1VM-108	E CAP.	1000μF 35V M
C1657	NCB31HK-103X	C CAP.	0.01μF 50V K
C1658	NDC31HJ-100X	C CAP.	10pF 50V J
C1661-63	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1664-65	NCB31HK-222X	CHIP CAP.	2200pF 50V K
C1666-67	NCF31AZ-105X	C CAP.	1μF 10V Z
C1671	QETN1EM-476Z	E CAP.	47μF 25V M
C1672	QETN1HM-226Z	E CAP.	22μF 50V M
C1673-74	NCF31AZ-105X	C CAP.	1μF 10V Z
C1675	QETN1EM-476Z	E CAP.	47μF 25V M
C1678-79	NDC31HJ-100X	C CAP.	10pF 50V J
C1680	NCF31AZ-105X	C CAP.	1μF 10V Z
C1681	NCB31HK-332X	CHIP CAP.	3300pF 50V K
C1682	NCB31EK-333X	CHIP CAP.	0.033μF 25V K
C1683	QETN1EM-476Z	E CAP.	47μF 25V M
C1684	NCB31HK-332X	CHIP CAP.	3300pF 50V K
C1685	NCB31EK-333X	CHIP CAP.	0.033μF 25V K
C1686	NCF31AZ-105X	C CAP.	1μF 10V Z
C1687	QETN1HM-106Z	E CAP.	10μF 50V M
C1688	QETN1EM-476Z	E CAP.	47μF 25V M
C1689	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1691	NCB31EK-393X	CHIP CAP.	0.039μF 25V K
C1692	NDC31HJ-100X	C CAP.	10pF 50V J
C1693-94	QETN1EM-476Z	E CAP.	47μF 25V M
C1695	NCF31AZ-105X	C CAP.	1μF 10V Z
C1696	NCB31EK-393X	CHIP CAP.	0.039μF 25V K
C1697	NCB31HK-103X	C CAP.	0.01μF 50V K
C1698	NCF31AZ-105X	C CAP.	1μF 10V Z
C1699	NCB31HK-103X	C CAP.	0.01μF 50V K
C1701	QETN1HM-106Z	E CAP.	10μF 50V M
C1702	NCB31CK-563X	CHIP CAP.	0.056μF 16V K
C1951	QETN1CM-477Z	E CAP.	470μF 16V M
C1952-53	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1954	QETN1AM-477Z	E CAP.	470μF 10V M
C1955	QETN1AM-227Z	E CAP.	220μF 10V M
C1956	QETN1AM-107Z	E CAP.	100μF 10V M

COIL

L1001	QQL244K-270Z	PEAKING COIL	
L1002-03	QQL244K-100Z	COIL	10μH K
L1101	QRN143J-0R0X	C R	0.0Ω 1/4W J
L1102	QQL244K-4R7Z	COIL	4.7μH K
L1111	QQL244K-220Z	PEAKING COIL	
L1112	QQL244K-180Z	COIL	18μH K
L1301-02	NQL092K-1R5X	CHIP INDUCTOR	
L1951	QQL26AM-5R6Z	CHOKE COIL	

△ Symbol No.	Part No.	Part Name	Description
DIODE			
D1317-18	MA111-X	SI. DIODE	
D1471-74	MA111-X	SI. DIODE	
D1521	MA111-X	SI. DIODE	
D1591	MA111-X	SI. DIODE	
D1592	MA3051/M/-X	ZENER DIODE	
D1602	MA111-X	SI. DIODE	
D1610-11	MA111-X	SI. DIODE	
D1614-15	MA111-X	SI. DIODE	
D1617	MA111-X	SI. DIODE	
D1619-20	MA3330/L/-X	ZENER DIODE	
D1626-27	MA3150/M/-X	ZENER DIODE	
D1771-74	MA3056/M/-X	ZENER DIODE	
D1951	1SR35-400A-T5	SI. DIODE	
D1981-82	MA111-X	SI. DIODE	
TRANSISTOR			
Q1101-02	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1471-72	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1561	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1562	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1601-02	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1604-05	DTC124EKA-X	DIGI. TRANSISTOR	
Q1606	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1607	DTA124EKA-X	DIGI. TRANSISTOR	
Q1615	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1616-17	DTC323TK-X	DIGI. TRANSISTOR	
IC			
IC1101	MSP3415DQGB3GHX	I.C. (MONO-ANA)	
IC1301	SDA9380	I C	
IC1402	BA10324AF-XE	I C	
IC1471	UPC358G2-XE	I.C. (MONO-ANA)	
IC1551	LA6515	I.C. (MONO-ANA)	
IC1601	TA8246AH	I.C. (HYBRID)	
IC1604	BA4558F-X	I.C. (MONO-ANA)	
IC1661	BD3869F-X	IC	
IC1662	BA4558F-X	I.C. (MONO-ANA)	
IC1663	NJM2150AM-X	I.C. (MONO-ANA)	
IC1665	BA10324AF-XE	I C	
IC1701	JLC1562BF-X	I.C. (DIGI-MOS)	
IC1951	BA09T	I.C. (MONO-ANA)	
IC1952	BA08T	I.C. (MONO-ANA)	
OTHERS			
CN1013	QGA2501C1-10	W TO B CONNE	
CN1111	QGA2501C5-04Z	W TO B CONNE	
J1001	QNN0296-001	PIN JACK	
LC1102	NQR0431-001X	EMI FILTER	
LC1301-03	NQR0431-001X	EMI FILTER	
K1001	NQR0389-003X	FERRITE BEADS	
K1101-02	NQR0389-003X	FERRITE BEADS	
K1301	NQR0413-003X	CHIP BEADS	
K1601-02	CE42681-001Y	BEADS CORE	
TU1001	QAU0189-002	TUNER	
X1101	CE42546-001Z	CRYSTAL	
X1501	QAX0549-001Z	CRYSTAL	
Y1612-13	NCF21CZ-105X	C CAP.	1μF 16V Z
Y1677-78	NRSA63J-101X	MG R	100Ω 1/16W J

POWER & DEF. P.W. BOARD ASS'Y (SMF-2002A-U2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R2401-02	QRE141J-562Y	C R	5.6kΩ 1/4W J
R2403	QRE141J-222Y	C R	2.2kΩ 1/4W J
R2404	QRX01GJ-1R0	MF R	1.0Ω 1W J
R2405	QRL029J-151	OM R	150Ω 2W J
R2406	QRE141J-222Y	C R	2.2kΩ 1/4W J
R2407-08	QRX01GJ-1R5	MF R	1.5Ω 1W J
R2409	QRE141J-823Y	C R	82kΩ 1/4W J
R2410	QRE141J-103Y	C R	10kΩ 1/4W J
R2421	QRE141J-103Y	C R	10kΩ 1/4W J
R2422	QRE141J-274Y	C R	270kΩ 1/4W J
R2461	QRG029J-820	OM R	82 Ω 2W J
R2462	QRE141J-473Y	C R	47kΩ 1/4W J
R2463	QRE141J-682Y	C R	6.8kΩ 1/4W J
R2464	QRX01GJ-3R3	MF R	3.3Ω 1W J
R2468	QRE141J-102Y	C R	1kΩ 1/4W J
R2469	QRE141J-272Y	C R	2.7kΩ 1/4W J
R2471	QRE141J-391Y	C R	390Ω 1/4W J
R2472	QRA14CF-1002Y	MF R	10kΩ 1/4W F
R2473	QRE141J-473Y	C R	47kΩ 1/4W J
R2474	QRE141J-103Y	C R	10kΩ 1/4W J
R2475	QRE141J-102Y	C R	1kΩ 1/4W J
R2476	QRE141J-102Y	C R	1kΩ 1/4W J
R2477	QRE141J-563Y	C R	56kΩ 1/4W J
R2478	QRE141J-333Y	C R	33kΩ 1/4W J
R2501	QRE141J-471Y	C R	470Ω 1/4W J
R2502	QRE141J-123Y	C R	12kΩ 1/4W J
R2503	QRE121J-152Y	C R	1.5kΩ 1/2W J
R2504	QRL039J-272	OM R	2.7kΩ 3W J
R2505	QRL039J-332	OM R	3.3kΩ 3W J
R2506	QRE121J-5R6Y	C R	5.6Ω 1/2W J
R2521	QRE121J-471Y	C R	470Ω 1/2W J
R2522	QRE141J-223Y	C R	22kΩ 1/4W J
R2523	QRE141J-103Y	C R	10kΩ 1/4W J
R2524	QRC121K-152Z	COMP. R	1.5kΩ 1/2W K
R2541	QRE141J-182Y	C R	1.8kΩ 1/4W J
R2542	QRE141J-222Y	C R	2.2kΩ 1/4W J
R2543	QRE121J-272Y	C R	2.7kΩ 1/2W J
△ R2551	QRZ9022-R47	F R	0.47 Ω 1W K
△ R2552	QRZ9022-R47	F R	0.47 Ω 1W K
△ R2553	QRZ9017-4R7	F R	4.7 Ω 1/4W J
R2554	QRE141J-0R0Y	C R	0.0Ω 1/4W J
R2561	QRG01GJ-220	OM R	22Ω 1W J
R2562	QRE121J-123Y	C R	12kΩ 1/2W J
R2563	QRZ0056-103Z	COMP. R	10kΩ
R2581	QRF154K-4R7	UNF R	4.7Ω 15W K
R2582	QRE141J-681Y	C R	680Ω 1/4W J
R2583	QRE121J-682Y	C R	6.8kΩ 1/2W J
R2584	QRE141J-183Y	C R	18kΩ 1/4W J
R2585	QRE141J-222Y	C R	2.2kΩ 1/4W J
R2586	QRA14CF-6801Y	MF R	6.8kΩ 1/4W F
R2587	QRA14CF-2101Y	MF R	2.1kΩ 1/4W F
R2588	QRE141J-103Y	C R	10kΩ 1/4W J
△ R2591	QRZ9017-4R7	F R	4.7 Ω 1/4W J
R2901	QRE121J-331Y	C R	330Ω 1/2W J
R2902	QRF054K-3R3	UNF R	3.3Ω 5W K
R2903	QRF104K-3R9	UNF R	3.9Ω 10W K
R2904	QRL039J-683	OM R	68kΩ 3W J
R2905-06	QRE121J-474Y	C R	470kΩ 1/2W J
R2908-09	QRL039J-823	OM R	82kΩ 3W J
△ R2910	QRZ9017-4R7	F R	4.7 Ω 1/4W J
R2911	QRE121J-152Y	C R	1.5kΩ 1/2W J
R2914	QRM059J-R10	MP R	0.10Ω 5W J
R2915	QRE121J-681Y	C R	680Ω 1/2W J
R2916	QRE121J-332Y	C R	3.3kΩ 1/2W J
△ R2932	QRZ9017-470	F R	47 Ω 1/4W J
R2933	QRE121J-272Y	C R	2.7kΩ 1/2W J
R2934	QRE121J-564Y	C R	560kΩ 1/2W J
R2935	QRE141J-472Y	C R	4.7kΩ 1/4W J
R2936	QRX01GJ-3R9	MF R	3.9Ω 1W J
R2937	QRE121J-681Y	C R	680Ω 1/2W J
R2941	QRE121J-331Y	C R	330Ω 1/2W J
R2942	QRE121J-471Y	C R	470Ω 1/2W J

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R2943	QRE141J-103Y	C R	10kΩ 1/4W J
R2944	QRE141J-103Y	C R	10kΩ 1/4W J
R2945	QRE141J-563Y	C R	56kΩ 1/4W J
R2946	QRE141J-103Y	C R	10kΩ 1/4W J
R2949	QRE141J-101Y	C R	100Ω 1/4W J
R2950	QRE141J-103Y	C R	10kΩ 1/4W J
R2951	QRE121J-102Y	C R	1kΩ 1/2W J
R2952	QRL039J-223	OM R	22kΩ 3W J
R2953	QRE141J-474Y	C R	470kΩ 1/4W J
R2954	QRE141J-103Y	C R	10kΩ 1/4W J
R2959	QRT039J-R68	MF R	0.68Ω 3W J
R2960	QRE141J-103Y	C R	10kΩ 1/4W J
R2963	QRL039J-561	OM R	560Ω 3W J
R2981	QRE141J-153Y	C R	15kΩ 1/4W J
R2982	QRE141J-102Y	C R	1kΩ 1/4W J
△ R2991	QRZ0057-825	C R	8.2MΩ 1W J

CAPACITOR			
C2403	QFLC2AJ-104Z	M CAP.	0.1μF 100V J
C2404	QCZ0120-104Z	C CAP.	0.1μF 25V Z
C2405	QDC31HJ-820Z	C CAP.	82pF 50V J
C2406	QETM1VM-108	E CAP.	1000pF 35V M
C2408	QETM1VM-337Z	E CAP.	330μF 35V M
C2409-10	QFV71HJ-474Z	MF CAP.	0.47μF 50V J
C2411	QFLC2AJ-104Z	M CAP.	0.1μF 100V J
C2414	QCB31HK-682Z	C CAP.	6800pF 50V K
C2421	QETN1HM-105Z	E CAP.	1μF 50V M
C2461	QEZO472-106Z	E CAP.	10μF 250V M
C2462	QFM72DJ-152Z	M CAP.	1500pF 200V J
C2463	QFM72DJ-122Z	M CAP.	1200pF 200V J
C2464	QCZ0120-104Z	C CAP.	0.1μF 25V Z
C2465	QETN1HM-106Z	E CAP.	10μF 50V M
C2466	QFP31HJ-272Z	PP CAP.	2700pF 50V J
C2467	QFLC1HJ-102Z	M CAP.	1000pF 50V J
C2468	QETN1EM-476Z	E CAP.	47μF 25V M
C2470	QCS31HJ-470Z	C CAP.	47pF 50V J
C2471	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
C2501	QCB32HK-331Z	C CAP.	330pF 500V K
C2502	QFM72DK-103	M CAP.	0.01μF 200V K
C2503	QFV71HJ-224Z	MF CAP.	0.22μF 50V J
C2521	QFZ0122-11Z	MPP CAP.	1100pF 1.8kVH±3%
△ C2522	QFZ0200-113	MPP CAP.	0.011μF 1.5kVH±3%
C2523	QFM72DK-393	M CAP.	0.039μF 200V K
△ C2524	QFP32JJ-183	PP CAP.	0.018μF 630V J
C2525	QFZ0194-914	MPP CAP.	0.91μF 250V J
C2526	QFZ0197-104	MPP CAP.	0.11μF 250V J
C2527	QFZ0194-154	MPP CAP.	0.15μF 250V J
C2528	QFZ0197-104	MPP CAP.	0.11μF 250V J
C2529	QFZ0194-154	MPP CAP.	0.15μF 250V J
C2530	QCB32HK-561Z	C CAP.	560pF 500V K
C2531	QFZ0194-534	MPP CAP.	0.53μF 250V J
C2532	QETM2CM-227	E CAP.	220μF 160V M
C2541	QENC1HM-105Z	BP E CAP.	1μF 50V M
C2551	QCB32HK-152Z	C CAP.	1500pF 500V K
C2552	QETN1CM-108Z	E CAP.	1000μF 16V M
C2553	QCB32HK-152Z	C CAP.	1500pF 500V K
C2554	QETN1CM-108Z	E CAP.	1000μF 16V M
C2555	QCB32HK-102Z	C CAP.	1000pF 500V K
C2556	QETN2EM-106Z	E CAP.	10μF 250V M
C2558	QETN1CM-477Z	E CAP.	470μF 16V M
C2559	QEHRI1CM-227Z	E CAP.	220μF 16V M
C2561	QFLC2AJ-223Z	M CAP.	0.022μF 100V J
C2581	QETN1CM-107Z	E CAP.	100μF 16V M
C2582	QETN1EM-476Z	E CAP.	47μF 25V M
C2583	QETN2AM-106Z	E CAP.	10μF 100V M
C2584	QETN1AM-227Z	E CAP.	220μF 10V M
△ C2901	QFZ9075-473	MPP CAP.	0.047μFAC275V M
△ C2902	QFZ9075-104	MPP CAP.	0.1μFAC275V M
△ C2903	QFZ9075-473	MPP CAP.	0.047μFAC275V M
C2904	QCZ9054-472	C CAP.	4700pFAC250V Z
C2905	QCZ9054-472	C CAP.	4700pFAC250V Z
C2906	QCZ9054-472	C CAP.	4700pFAC250V Z

△ Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C2907	QEZO199-227	E CAP.	220μF 400V M
C2908	QCB32HK-103	C CAP.	0.01μF 500V K
C2909	QCZ0340-391	C CAP.	390pF 2kV K
C2910	QETN1HM-476Z	E CAP.	47μF 50V M
C2911	QCB31HK-122Z	C CAP.	1200pF 50V K
C2912	QCZ0340-561	C CAP.	560pF 2kV K
C2914	QCB31HK-471Z	C CAP.	470pF 50V K
C2916	QCB32HK-152Z	C CAP.	1500pF 500V K
△ C2931	QCZ9054-472	C CAP.	4700pFAC250V Z
△ C2932	QCZ9054-472	C CAP.	4700pFAC250V Z
△ C2933	QCZ9054-472	C CAP.	4700pFAC250V Z
C2934	QETM2GM-226	E CAP.	22μF 400V M
C2936	QCZ0340-151	C CAP.	150pF 2kV K
C2937	QETN1HM-475Z	E CAP.	4.7μF 50V M
C2938	QCB31HK-222Z	C CAP.	2200pF 50V K
C2939	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
C2940	QCB31HK-471Z	C CAP.	470pF 50V K
C2941	QETN1AM-108Z	E CAP.	1000μF 10V M
C2942	QFLC1HJ-102Z	M CAP.	1000pF 50V J
C2951	QEZO203-227	E CAP.	220μF 160V M
C2952	QTHM1EM-228	E CAP.	2200μF 25V M
C2954	QETM1VM-228	E CAP.	2200μF 35V M
C2959	QFV71HJ-684Z	MF CAP.	0.68μF 50V J
C2960	QCZ0131-821	C CAP.	820pF 2kV K
C2963	QCB32HK-152Z	C CAP.	1500pF 500V K
C2972	QETN1CM-108Z	E CAP.	1000μF 16V M
C2974-75	QEZO256-128	E CAP.	1200μF 10V M
C2976	QETN1CM-108Z	E CAP.	1000μF 16V M
C2978-79	QEZO256-128	E CAP.	1200μF 10V M
△ C2991	QCZ9079-22Z	C CAP.	2200pFAC250V M
△ C2993	QCZ9079-471	C CAP.	470pFAC250V K

TRANSFORMER			
T2501	QQR1111-001	DRIVE TRANSF.	
T2521	QQR1188-001	PIN TRANSF.	
△ T2551	QQH0091-002-12	FBT	(SERVICE)with ANODE WIRE
T2561	QQR1096-001	DEF. TRANSF.	
△ T2901	QQS0102-001	SW TRANSF.	
△ T2931	QQS0101-001	SW TRANSF.	

COIL			
L2461	QQLZ030-801	INDUCTOR	
L2462	QQLZ028-272	CHOKE COIL	
L2521	QQLZ031-180	CHOKE COIL	
L2522	QQR1191-001	LINEARITY COIL	
L2551	QQLZ026-540	HEATER CHOKE	
L2552	QQLZ26AK-220Z	COIL	22μH K
L2561	QQLZ028-272	CHOKE COIL	
L2901-02	QQL401K-100Z	CHOKE COIL	
L2903	QQR1200-001	CHOKE COIL	
L2951	QQLZ026-460	HEATER CHOKE	
L2954-55	QQR1129-001	CHOKE COIL	
L2957	QQLZ026-460	HEATER CHOKE	
L2958	QQLZ026-460	HEATER CHOKE	
L2959-60	QQLZ26AK-220Z	COIL	22μH K

DIODE			
D2402	1SR35-400A-T2	SI. DIODE	
D2421	1SS133-T2	SI. DIODE	
D2461	EU2-T3	SI. DIODE	
D2462	1SS133-T2	SI. DIODE	
D2463	1SS133-T2	SI. DIODE	
D2501	1SS81-T5	SI. DIODE	
D2521	V11CA-C1	SI. DIODE	
D2522	FMV-3FU-F1	SI. DIODE	
D2523	MTZJ22B-T2	ZENER DIODE	
D2524	1SR35-400A-T2	SI. DIODE	
D2541	EU2-T3	SI. DIODE	
D2542	MTZJ3.9B-T2	ZENER DIODE	
D2551	EU2-T3	SI. DIODE	
D2552	EU2-T3	SI. DIODE	
D2553	RH15-T3	SI. DIODE	
D2582	MTZJ7.5B-T2	ZENER DIODE	

△ Symbol No.	Part No.	Part Name	Description
DIODE			
△ D2583	MTZJ7.5S-T2	ZENER DIODE	
D2584	EU2-T3	SI. DIODE	
D2901	D35B60	BRIDGE DIODE	
D2902	RG1C-LFA1	SI. DIODE	
D2904	AU01Z-T2	SI. DIODE	
D2905	AU01Z-T2	SI. DIODE	
D2906	MTZJ27B-T2	ZENER DIODE	
D2907	1S5133-T2	SI. DIODE	
D2908	1S5133-T2	SI. DIODE	
D2910	MTZJ15B-T2	ZENER DIODE	
△ D2912	MTZJ27B-T2	ZENER DIODE	
D2931	51WB/A/60-4101	SI. DIODE	
D2933	AU01Z-T2	SI. DIODE	
D2934	AU01Z-T2	SI. DIODE	
D2935	1S5133-T2	SI. DIODE	
D2941	RGP10J-5025-T3	SI. DIODE	
D2943	MTZJ7.5B-T2	ZENER DIODE	
D2944	NJM431L-T	I.C. (MONO-ANA)	
D2945	1S5133-T2	SI. DIODE	
D2951	RU4B-F1	SI. DIODE	
D2952	FMX-G12S	SI. DIODE	
D2953	RU4B-F1	SI. DIODE	
D2954	FMX-G12S	SI. DIODE	
D2958	MTZJ33B-T2	ZENER DIODE	
D2959-60	RK34-LFC4	SI. DIODE	
D2961	1SR35-400A-T2	SI. DIODE	
D2981	1S5133-T2	SI. DIODE	
D2984	1S5133-T2	SI. DIODE	
D2985	1S5133-T2	SI. DIODE	
TRANSISTOR			
Q2421	DTC124ESA-T	DIGI. TRANSISTOR	
Q2422	2SC1740S/QR/-T	SI. TRANSISTOR	
Q2461	2SK2459N-F54	F.E.T.	
Q2462-63	2SC1740S/QR/-T	SI. TRANSISTOR	
Q2464	2SA933AS/QR/-T	SI. TRANSISTOR	
Q2501	BSN304-T	F.E.T.	
△ Q2521	2SC5552-RL	SI. TRANSISTOR	
Q2581	2SA1208/ST/Z1-T	SI. TRANSISTOR	
Q2582	DTC144ESA-T	DIGI. TRANSISTOR	
Q2583	2SC1740S/QR/-T	SI. TRANSISTOR	
Q2941-42	2SC1740S/QR/-T	SI. TRANSISTOR	
IC			
IC2401	LA78041	I C	
IC2461	BA10393	I.C. (MONO-ANA)	
IC2551	BA12T	I.C. (MONO-ANA)	
IC2901	STR-F6667B/F7	I.C. (HYBRID)	
IC2931	STR-L472/F7	I C	
IC2951	SE140N	I.C. (HYBRID)	
IC2954	SI-8050S	I.C. (HYBRID)	
IC2955	SI-8033S/F1	I.C. (HYBRID)	
OTHERS			
CN2010	QGA2501C5-04Z	W TO B CONNE	
CN2014	QGA2501C5-06Z	EH. POST HEADER	
△ CP2931	QMFZ043-2R0Z-J1	FUSE	2.0A
△ CP2941	ICP-N25-Y	I.C. PROTECT	
△ CP2954	ICP-N75-Y	I.C. PROTECT	
K2401	QQR0621-002Z	BEADS CORE	
K2522-24	CE41832-001	LEAD CORE	
K2901	QQR0679-001	FERRITE BEADS	
K2952	QQR0621-002Z	BEADS CORE	
K2953	QQR0621-002Z	BEADS CORE	
K2954	QQR0621-002Z	BEADS CORE	
△ LF2901	QQR1095-001	LINE FILTER	
△ PC2901	PC123FY2	I.C. (PH. COUPLER)	
△ PC2931	PC123FY2	I.C. (PH. COUPLER)	
△ RY2931	QSK0099-001	RELAY	
△ TH2901	QAD0133-9R0	PTC	

■ CRT SOCKET P.W. BOARD ASS'Y (SMF-3001A-U2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R3101	NRSA63J-123X	MG R	12kΩ 1/16W J
R3102	NRSA63J-681X	MG R	680Ω 1/16W J
R3103	NRSA63J-101X	MG R	100Ω 1/16W J
R3104	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R3105	NRSA63J-102X	MG R	1kΩ 1/16W J
R3106	NRSA63J-221X	MG R	220Ω 1/16W J
R3107	NRSA63J-561X	MG R	560Ω 1/16W J
R3109	NRSA63J-153X	MG R	15kΩ 1/16W J
R3110	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R3111	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R3112	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R3113	NRSA63J-331X	MG R	330Ω 1/16W J
R3114	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R3115	NRSA63J-820X	MG R	82Ω 1/16W J
R3116	QRG01GJ-101	OM R	100Ω 1W J
R3117	NRSA63J-221X	MG R	220Ω 1/16W J
R3122	NRSA63J-122X	MG R	1.2kΩ 1/16W J
R3123	QRE121J-563Y	C R	56kΩ 1/2W J
R3124	NRSA63J-470X	MG R	47Ω 1/16W J
R3125	QRE121J-563Y	C R	56kΩ 1/2W J
R3126	NRSA63J-470X	MG R	47Ω 1/16W J
R3127	NRSA63J-122X	MG R	1.2kΩ 1/16W J
R3128	NRSA63J-390X	MG R	39Ω 1/16W J
R3129-30	QRE121J-2R7Y	C R	2.7Ω 1/2W J
R3131	NRSA63J-390X	MG R	39Ω 1/16W J
R3132	NRSA63J-121X	MG R	120Ω 1/16W J
R3133	QRL029J-391	OM R	390Ω 2W J
△ R3134	QRZ9021-561	F R	560 Ω 1W J
R3204-06	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R3211	NRSA63J-154X	MG R	150kΩ 1/16W J
R3223-25	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R3227	NRSA63J-103X	MG R	10kΩ 1/16W J
R3228	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R3229-31	QRL029J-104	OM R	100kΩ 2W J
R3232-34	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R3235-37	QRC121K-152Z	COMP. R	1.5kΩ 1/2W K
R3239	QRZ0107-474Z	C R	470kΩ 1/2W K
R3241	QRZ0107-105Z	C R	1.0MΩ 1/2W K
R3242	NRSA63J-103X	MG R	10kΩ 1/16W J
R3244	NRSA63J-102X	MG R	1kΩ 1/16W J
R3245-47	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R3301-02	QRE121J-474Y	C R	470kΩ 1/2W J
R3303-04	NRSA63J-223X	MG R	22kΩ 1/16W J
R3305	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R3306	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R3310	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
CAPACITOR			
C3102	NDC31HJ-8R0X	C CAP.	8.0pF 50V J
C3103	NDC31HJ-151X	C CAP.	150pF 50V J
C3104	QCB31HK-103Z	C CAP.	0.01μF 50V K
C3106	QETN1HM-335Z	E CAP.	3.3μF 50V M
C3107	QETN1CM-107Z	E CAP.	100μF 16V M
C3110	QETN2CM-106Z	E CAP.	10μF 160V M
C3111	QCB32HK-472Z	C CAP.	4700pF 500V K
C3113	QETN2CM-106Z	E CAP.	10μF 160V M
C3114	QCB32HK-472Z	C CAP.	4700pF 500V K
C3116-17	QETN1AM-107Z	E CAP.	100μF 10V M
C3118	QETN1AM-337Z	E CAP.	330μF 10V M
C3120-21	NDC31HJ-221X	C CAP.	220pF 50V J
C3201-03	NDC31HJ-8R0X	C CAP.	8.0pF 50V J
C3204-06	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C3207-09	QETN1EM-476Z	E CAP.	47μF 25V M
C3210-12	QFK62EK-104Z	MM CAP.	0.1μF 250V K
C3213-15	NDC31HJ-181X	C CAP.	180pF 50V J
C3216	QETN1CM-107Z	E CAP.	100μF 16V M
C3218	QETM2EM-336	E CAP.	33μF 250V M
C3219	QFZ0097-223	MM CAP.	0.022μF 1250V K
C3221	QETN2EM-106Z	E CAP.	10μF 250V M
C3302	QETN1AM-477Z	E CAP.	470μF 10V M

△ Symbol No.	Part No.	Part Name	Description
COIL			
L3101	QQL244K-5R6Z	COIL	5.6μH K
L3204	QQL26AJ-102Z	COIL	1mH J
DIODE			
D3101-02	MA111-X	SI. DIODE	
D3103	RH1S-T3	SI. DIODE	
D3104	RH1S-T3	SI. DIODE	
D3204-06	EU01N-T2	SI. DIODE	
D3208-10	1SR124-400A-T2	SI. DIODE	
D3211	MA3062/M/-X	ZENER DIODE	
D3301	MA111-X	SI. DIODE	
D3303	MA111-X	SI. DIODE	
TRANSISTOR			
Q3101	2SC2412K/QR/-X	SI. TRANSISTOR	
Q3102	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q3103	2SC1906-T	SI. TRANSISTOR	
Q3104	2SC2412K/QR/-X	SI. TRANSISTOR	
Q3105	2SC1627A/OY/-T	SI. TRANSISTOR	
Q3108	2SA1837	SI. TRANSISTOR	
Q3109	2SC4793	SI. TRANSISTOR	
Q3301	2SA1037AK/QR/-X	SI. TRANSISTOR	
IC			
IC3201-03	TDA6111Q	I. C. (MONO-ANA)	
OTHERS			
K3101	CE41492-001Z	CHOKE COIL	
K3103-04	CE41492-001Z	CHOKE COIL	
K3105	QQR0621-002Z	BEADS CORE	
△ SK3001	QNZ0380-001	C.R.T. SOCKET	

■ FRONT CONTROL P.W. BOARD ASS'Y (SMF-8008A-U2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R8003	NRSA63J-102X	MG R	1kΩ 1/16W J
R8004	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R8005	NRSA63J-221X	MG R	220Ω 1/16W J
R8006	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R8008	NRSA63J-102X	MG R	1kΩ 1/16W J
R8020	NRSA63J-822X	MG R	8.2kΩ 1/16W J
R8035	QRE121J-151Y	C R	150Ω 1/2W J
R8039	NRSA63J-331X	MG R	330Ω 1/16W J
CAPACITOR			
C8003	QETN1HM-106Z	E CAP.	10μF 50V M
C8004	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C8019	QETN1CM-107Z	E CAP.	100μF 16V M
C8022	QETN1EM-476Z	E CAP.	47μF 25V M
△ C8901	QFZ9040-474	MF CAP.	0.47μFAC275V M
DIODE			
D8007	P1241-04	C.D.S.	
D8008	MA111-X	SI. DIODE	
D8010	SPR-39MVWF	L.E.D.	
D8011	MA111-X	SI. DIODE	
D8014	MA3068/M/-X	ZENER DIODE	
D8018	MA3033-X	ZENER DIODE	
TRANSISTOR			
Q8001	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q8002	DTC124EKA-X	DIGI. TRANSISTOR	
Q8003-04	DTA124EKA-X	DIGI. TRANSISTOR	
IC			
IC8001	GP1U281Q	IFR DETECT UNIT	
OTHERS			
	CM35921-005-H	CDS HOLDER	
	LC30349-001A-H	L.E.D. HOLDER	
△ LF8901	CEMG002-001Z	FUSE CLIP	
△ F8901	QQR1095-001	LINE FILTER	
△ F8901	QMF51D2-3R15J1	FUSE	3.15A
△ S8901	QSW0824-001	PUSH SWITCH	MAIN POWER

■ SIDE CONTROL P.W. BOARD ASS'Y (SMF-8108A-U2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R8001-02	QRE121J-271Y	C R	270Ω 1/2W J
R8007	NRSA63J-103X	MG R	10kΩ 1/16W J
R8010	NRSA63J-103X	MG R	10kΩ 1/16W J
R8012-13	NRSA63J-103X	MG R	10kΩ 1/16W J
R8021-22	NRSA63J-102X	MG R	1kΩ 1/16W J
CAPACITOR			
C8001-02	NCB31HK-103X	C CAP.	0.01μF 50V K
C8003	NDC31HJ-680X	C CAP.	68pF 50V J
C8010-11	NCB31HK-472X	C CAP.	4700pF 50V K
C8021	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
COIL			
L8001	QQR0716-001Z	LEAD CORE	
L8002-03	QQL244K-5R6Z	COIL	5.6μH K
L8010-11	QQL244K-270Z	PEAKING COIL	
L8012	QQR0716-001Z	LEAD CORE	
OTHERS			
J8001	QNS0169-001	PIN JACK	
J8003	QNZ0438-001	JACK	
LC8002	NQR0169-001X	EMI FILTER	
S8001	QSW0619-003Z	PUSH SWITCH	MENU
S8002	QSW0619-003Z	PUSH SWITCH	CH DOWN
S8003	QSW0619-003Z	PUSH SWITCH	CH UP

■ MICON P.W. BOARD ASS'Y (SMF0M001A-U2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0001	NRSA63J-102X	MG R	1kΩ 1/16W J
R0002	NRSA63J-104X	MG R	100kΩ 1/16W J
R0003-05	NRSA63J-102X	MG R	1kΩ 1/16W J
R0006	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R0007-08	NRSA63J-102X	MG R	1kΩ 1/16W J
R0009-11	NRSA63J-103X	MG R	10kΩ 1/16W J
R0012	NRSA63J-273X	MG R	27kΩ 1/16W J
R0013	NRSA63J-221X	MG R	220Ω 1/16W J
R0014	NRSA63J-102X	MG R	1kΩ 1/16W J
R0015	NRSA63J-473X	MG R	47kΩ 1/16W J
R0016-17	NRSA63J-103X	MG R	10kΩ 1/16W J
R0018-21	NRSA63J-102X	MG R	1kΩ 1/16W J
R0022	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0024	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0027	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0030	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0032	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0034-53	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0055	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0057-77	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0087	NRSA63J-221X	MG R	220Ω 1/16W J
R0089-91	NRSA63J-221X	MG R	220Ω 1/16W J
R0092	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0093	NRSA63J-221X	MG R	220Ω 1/16W J
R0094	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0095	NRSA63J-473X	MG R	47kΩ 1/16W J
R0096	NRSA63J-221X	MG R	220Ω 1/16W J
R0097	NRSA63J-102X	MG R	1kΩ 1/16W J
R0098	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0099	NRSA63J-102X	MG R	1kΩ 1/16W J
R0100-02	NRSA63J-102X	MG R	1kΩ 1/16W J
R0103-06	NRSA63J-103X	MG R	10kΩ 1/16W J
R0107	NRSA63J-102X	MG R	1kΩ 1/16W J
R0110	NRSA63J-102X	MG R	1kΩ 1/16W J
R0111	NRSA63J-103X	MG R	10kΩ 1/16W J
R0112	NRSA63J-102X	MG R	1kΩ 1/16W J
R0113-14	NRSA63J-103X	MG R	10kΩ 1/16W J
R0119	NRSA63J-563X	MG R	56kΩ 1/16W J
R0120	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R0121	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R0122	NRSA63J-103X	MG R	10kΩ 1/16W J
R0123	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R0124	NRSA63J-101X	MG R	100Ω 1/16W J
R0125-28	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0129	NRSA63J-823X	MG R	82kΩ 1/16W J
R0130	NRSA63J-104X	MG R	100kΩ 1/16W J
R0131	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0133	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0135	NRSA63J-102X	MG R	1kΩ 1/16W J
R0136	NRSA63J-103X	MG R	10kΩ 1/16W J
R0137-39	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0144-45	NRSA63J-103X	MG R	10kΩ 1/16W J
R0146	NCF31CZ-104X	C CAP.	0.1μF 16V Z
R0147	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0151	NRSA63J-183X	MG R	18kΩ 1/16W J
R0152-54	NRSA63J-221X	MG R	220Ω 1/16W J
R0155-56	NRSA63J-101X	MG R	100Ω 1/16W J
R0157	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0158	NRSA63J-221X	MG R	220Ω 1/16W J
R0161	NRSA63J-102X	MG R	1kΩ 1/16W J
R0162	NRSA63J-153X	MG R	15kΩ 1/16W J
R0163	NRSA63J-682X	MG R	6.8kΩ 1/16W J
CAPACITOR			
C0001	QETN0JM-477Z	E CAP.	470μF 6.3V M
C0002	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C0003	NCB11CK-225X	CHIP CAP.	2.2μF 16V K
C0004	QETN0JM-108Z	E CAP.	1000μF 6.3V M
C0005-06	NCB11CK-225X	CHIP CAP.	2.2μF 16V K
C0007	NEH71CM-476X	E CAP.	47μF 16V M
C0008	NCB11CK-225X	CHIP CAP.	2.2μF 16V K

△ Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C0012-13	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C0014	NCB31HK-682X	CHIP CAP.	6800pF 50V K
C0017	NDC31HJ-150X	C CAP.	15pF 50V J
C0019	NEH71CM-476X	E CAP.	47μF 16V M
C0020	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C0021	NEH71CM-476X	E CAP.	47μF 16V M
C0022	NCF31AZ-105X	C CAP.	1μF 10V Z
C0023	NCB31EK-333X	CHIP CAP.	0.033μF 25V K
C0024	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C0027-28	NEH71CM-476X	E CAP.	47μF 16V M
C0029	NDC31HJ-151X	C CAP.	150pF 50V J
C0030-32	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C0034-39	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C0040	NDC31HJ-330X	C CAP.	33pF 50V J
C0041	NDC31HJ-270X	C CAP.	27pF 50V J
C0042-43	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C0045-47	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C0048	NEH71CM-476X	E CAP.	47μF 16V M
C0049-50	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C0051	NEH71CM-476X	E CAP.	47μF 16V M
C0052-57	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C0059-61	NEH71CM-106X	E CAP.	10μF 16V M
C0062	NCF31CZ-104X	C CAP.	0.1μF 16V Z
C0063-65	NDC31HJ-820X	C CAP.	82pF 50V J
C0070	NEH71HM-225X	E CAP.	2.2μF 50V M
COIL			
L0001	NQL092K-4R7X	CHIP INDUCTOR	
L0003	NQL092K-4R7X	CHIP INDUCTOR	
L0005-08	NQL092K-4R7X	CHIP INDUCTOR	
L0009	NQL034K-4R7X	CHIP INDUCTOR	
L0010-14	NQL092K-4R7X	CHIP INDUCTOR	
L0015-16	NQL034K-4R7X	CHIP INDUCTOR	
L0017-22	NQL092K-1R5X	CHIP INDUCTOR	
DIODE			
D0001-02	MA111-X	SI DIODE	
D0003	MA3068/M/-X	ZENER DIODE	
D0004	MA3027-X	ZENER DIODE	
D0005-08	MA3056/M/-X	ZENER DIODE	
D0010	MA3068/M/-X	ZENER DIODE	
TRANSISTOR			
Q0001-02	2SC2712/YG/-X	SI TRANSISTOR	
Q0007-08	2SA1162/YG/-X	SI TRANSISTOR	
Q0009-12	2SC2712/YG/-X	SI TRANSISTOR	
IC			
IC0001	SDA6000	I C	
IC0003	K4S161622D-TC80	I.C. (D-RAM)	
IC0004	AT24C32-32L5E1	I.C.	(SERVICE)
IC0005	S-80828ANMP-W	I C	
IC0012	MX23L1610TC1001	I C	
IC0901	TA48M025F-X	I.C. (M)	
IC0902	TA48M033F-X	I.C. (M)	
IC0903	MM1437AF-X	I.C. (MONO-ANA)	
OTHERS			
CN0001	QGB1505K1-50	CONNECTOR	
LC0001	NQR0313-007X	EMI FILTER	
LC0002	NQR0431-001X	EMI FILTER	
K0001	NQR0360-002X	FERRITE BEADS	
K0002	NQR0389-003X	FERRITE BEADS	
K0003	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
K0004	NQR0389-003X	FERRITE BEADS	
K0005	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
X0001	QAX0669-001Z	XTAL	

■ AV SW P.W. BOARD ASS'Y (SMF0S001A-U2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0101-09	NRSA63J-750X	MG R	75Ω 1/16W J
R0110-11	NRSA63J-103X	MG R	10kΩ 1/16W J
R0112-13	NRSA63J-823X	MG R	82kΩ 1/16W J
R0114	NRSA63J-333X	MG R	33kΩ 1/16W J
R0115	NRSA63J-473X	MG R	47kΩ 1/16W J
R0116	NRSA63J-823X	MG R	82kΩ 1/16W J
R0117	NRSA63J-223X	MG R	22kΩ 1/16W J
R0118	NRSA63J-473X	MG R	47kΩ 1/16W J
R0119	NRSA63J-153X	MG R	15kΩ 1/16W J
R0120	NRSA63J-273X	MG R	27kΩ 1/16W J
R0121	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0122	NRSA63J-473X	MG R	47kΩ 1/16W J
R0123	NRSA63J-823X	MG R	82kΩ 1/16W J
R0124	NRSA63J-153X	MG R	15kΩ 1/16W J
R0125	NRSA63J-223X	MG R	22kΩ 1/16W J
R0126	NRSA63J-473X	MG R	47kΩ 1/16W J
R0127	NRSA63J-273X	MG R	27kΩ 1/16W J
R0128-29	NRSA63J-823X	MG R	82kΩ 1/16W J
R0130-31	NRSA63J-391X	MG R	390Ω 1/16W J
R0132	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0133	NRSA63J-333X	MG R	33kΩ 1/16W J
R0134	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0135	NRSA63J-333X	MG R	33kΩ 1/16W J
R0136	NRSA63J-103X	MG R	10kΩ 1/16W J
R0137	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0138-39	NRSA63J-333X	MG R	33kΩ 1/16W J
R0140	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0141	NRSA63J-333X	MG R	33kΩ 1/16W J
R0142	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0143-44	NRSA63J-333X	MG R	33kΩ 1/16W J
R0145	NRSA63J-103X	MG R	10kΩ 1/16W J
R0146	NRSA63J-473X	MG R	47kΩ 1/16W J
R0147	NRSA63J-223X	MG R	22kΩ 1/16W J
R0148-49	NRSA63J-391X	MG R	390Ω 1/16W J
R0150-51	NRSA63J-104X	MG R	100kΩ 1/16W J
R0152-67	NRSA63J-101X	MG R	100Ω 1/16W J
R0168	NRSA63J-750X	MG R	75Ω 1/16W J
R0169	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0170	NRSA63J-333X	MG R	33kΩ 1/16W J
R0171	NRSA63J-750X	MG R	75Ω 1/16W J
R0172	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0173	NRSA63J-333X	MG R	33kΩ 1/16W J
R0174	NRSA63J-750X	MG R	75Ω 1/16W J
R0175	NRSA63J-333X	MG R	33kΩ 1/16W J
R0176	NRSA63J-103X	MG R	10kΩ 1/16W J
R0177	NRSA63J-823X	MG R	82kΩ 1/16W J
R0178	NRSA63J-153X	MG R	15kΩ 1/16W J
R0179	NRSA63J-473X	MG R	47kΩ 1/16W J
R0180	NRSA63J-273X	MG R	27kΩ 1/16W J
R0181-82	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R0183-84	NRSA63J-102X	MG R	1kΩ 1/16W J
R0185-90	NRSA63J-101X	MG R	100Ω 1/16W J
R0191	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0192-93	NRSA63J-101X	MG R	100Ω 1/16W J
R0194-95	NRSA63J-221X	MG R	220Ω 1/16W J
R0196	QRG01GJ-101	OM R	100Ω 1W J
R0197	QRK126J-181X	C R	180Ω 1/2W J
R0198	NRSA63J-750X	MG R	75Ω 1/16W J
R0199	NRSA63J-101X	MG R	100Ω 1/16W J
R0200	NRSA63J-750X	MG R	75Ω 1/16W J
R0201	QRK126J-151X	C R	150Ω 1/2W J
R0202	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0203-05	NRSA63J-750X	MG R	75Ω 1/16W J

CAPACITOR

C0101-10	NCB31HK-472X	C CAP.	4700pF 50V K
C0111-12	QETN1HM-477Z	E CAP.	470μF 16V M
C0113-14	NCB31HK-102X	C CAP.	1000pF 50V K
C0115-17	QETN1HM-106Z	E CAP.	10μF 50V M
C0118-19	QETN1HM-105Z	E CAP.	1μF 50V M
C0120	NCB31HK-103X	C CAP.	0.01μF 50V K

△ Symbol No.	Part No.	Part Name	Description
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CAPACITOR

C0121	QETN1HM-105Z	E CAP.	1μF 50V M
C0122	QETN1HM-106Z	E CAP.	10μF 50V M
C0123	QETN1HM-105Z	E CAP.	1μF 50V M
C0124	NCB31HK-103X	C CAP.	0.01μF 50V K
C0125	NCB31HK-102X	C CAP.	1000pF 50V K
C0126-28	QETN1HM-106Z	E CAP.	10μF 50V M
C0129	QETN1HM-105Z	E CAP.	1μF 50V M
C0130	NCB31HK-103X	C CAP.	0.01μF 50V K
C0131	QETN1HM-105Z	E CAP.	1μF 50V M
C0132	NCB31HK-103X	C CAP.	0.01μF 50V K
C0133	QETN1HM-106Z	E CAP.	10μF 50V M
C0134	QETN1HM-105Z	E CAP.	1μF 50V M
C0135	QETN1HM-106Z	E CAP.	10μF 50V M
C0136	QETN1HM-105Z	E CAP.	1μF 50V M
C0137	NCB31HK-103X	C CAP.	0.01μF 50V K
C0138-39	QENC1HM-105Z	BP E CAP.	1μF 50V M
C0140	QENC1EM-106Z	BP E CAP.	10μF 25V M
C0141-47	NCB31HK-103X	C CAP.	0.01μF 50V K
C0148	QETN1HM-106Z	E CAP.	10μF 50V M
C0149	QENC1EM-106Z	BP E CAP.	10μF 25V M
C0150-51	QETN1CM-107Z	E CAP.	100μF 16V M
C0152	QETN1CM-477Z	E CAP.	470μF 16V M
C0153	NCB31HK-103X	C CAP.	0.01μF 50V K
C0154	QETN1CM-107Z	E CAP.	100μF 16V M
C0155	NDC31HJ-150X	C CAP.	15pF 50V J

COIL

L0101	QQR0716-001Z	LEAD CORE
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DIODE

D0101-04	MA3056/M/-X	ZENER DIODE
D0109-13	MA3120/M/-X	ZENER DIODE
D0114	MA3039/H/-X	ZENER DIODE
D0115-17	MA3056/M/-X	ZENER DIODE

TRANSISTOR

Q0101-02	2SC2412K/QR/-X	SI TRANSISTOR
Q0103-05	DTC323TK-X	DIGI. TRANSISTOR
Q0106-09	2SC2412K/QR/-X	SI TRANSISTOR
Q0110	2SA1037AK/QR/-X	SI TRANSISTOR
Q0111	DTC323TK-X	DIGI. TRANSISTOR
Q0112	2SA1037AK/QR/-X	SI TRANSISTOR
Q0113-15	2SC2412K/QR/-X	SI TRANSISTOR
Q0116	2SA933AS/QR/-T	SI TRANSISTOR
Q0117	2SC1740S/QR/-T	SI TRANSISTOR
Q0118	2SC2412K/QR/-X	SI TRANSISTOR

IC

IC0101	CXA2069Q	I C
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OTHERS

J0001	QNZ0465-001	PIN CONNECTOR
J0002	QNZ0463-001	PIN CONNECTOR
J0002	QNZ0463-001	PIN CONNECTOR
K0101-04	CE42681-001Y	BEADS CORE

■ 100Hz P.W. BOARD ASS'Y (SMF0Z003A-U2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0001-09	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0010-12	NRSA63J-101X	MG R	100Ω 1/16W J
R0101	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R0102-03	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0104	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R0105-06	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0107-13	NRSA63J-750X	MG R	75Ω 1/16W J
R0121	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0123	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0124-25	NRSA63J-101X	MG R	100Ω 1/16W J
R0132-39	NRSA63J-100X	MG R	10Ω 1/16W J
R0141	NRSA63J-100X	MG R	10Ω 1/16W J
R0151	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R0152-53	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0154	NRSA63J-750X	MG R	75Ω 1/16W J
R0155-56	NRSA63J-101X	MG R	100Ω 1/16W J
R0170	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0179-86	NRSA63J-100X	MG R	10Ω 1/16W J
R0188	NRSA63J-100X	MG R	10Ω 1/16W J
R0201	NRSA63J-121X	MG R	120Ω 1/16W J
R0202-03	NRSA63J-101X	MG R	100Ω 1/16W J
R0204	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0217	NRSA63J-103X	MG R	10kΩ 1/16W J
R0218	NRSA63J-333X	MG R	33kΩ 1/16W J
R0219	NRSA63J-103X	MG R	10kΩ 1/16W J
R0220	NRSA63J-822X	MG R	8.2kΩ 1/16W J
R0221	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0223	NRSA63J-473X	MG R	47kΩ 1/16W J
R0225	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0250	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0251	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0252	NRSA63J-750X	MG R	75Ω 1/16W J
R0254	NRSA63J-391X	MG R	390Ω 1/16W J
R0255-56	NRSA63J-221X	MG R	220Ω 1/16W J
R0257	NRSA63J-271X	MG R	270Ω 1/16W J
R0258	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R0259	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0261	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0264	NRSA63J-391X	MG R	390Ω 1/16W J
R0271	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R0274	NRSA63J-391X	MG R	390Ω 1/16W J
R0281	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0301-03	NRSA63J-104X	MG R	100kΩ 1/16W J
R0304-05	NRSA63J-101X	MG R	100Ω 1/16W J
R0306-08	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R0401	NRSA63J-473X	MG R	47kΩ 1/16W J
R0402	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R0404	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0407	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R0409	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
CAPACITOR			
C0001	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0002	NEH71CM-476X	E CAP.	47μF 16V M
C0003	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0004	NEH71CM-476X	E CAP.	47μF 16V M
C0005	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0006	NEH71CM-476X	E CAP.	47μF 16V M
C0007-09	NDC31HJ-4R0X	C CAP.	4.0pF 50V J
C0101	NEH71CM-106X	E CAP.	10μF 16V M
C0102	NCB31EK-473X	CHIP CAP.	0.047μF 25V K
C0103	NEH71CM-476X	E CAP.	47μF 16V M
C0104	NCB31HK-152X	CHIP CAP.	1500pF 50V K
C0105	NDC31HJ-102X	C CAP.	1000pF 50V J
C0106	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0107	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C0108	NCB31HK-152X	CHIP CAP.	1500pF 50V K
C0109	NDC31HJ-391X	C CAP.	390pF 50V J
C0110	NEH71CM-106X	E CAP.	10μF 16V M
C0111	NCB31EK-473X	CHIP CAP.	0.047μF 25V K
C0112	NDC31HJ-331X	C CAP.	330pF 50V J

△ Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C0113-18	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C0119-24	NDC31HJ-331X	C CAP.	330pF 50V J
C0125-26	NDC31HJ-3R0X	C CAP.	3.0pF 50V J
C0128	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0129	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C0130	NDC31HJ-391X	C CAP.	390pF 50V J
C0131	NCB31HK-152X	CHIP CAP.	1500pF 50V K
C0132	NCB31EK-473X	CHIP CAP.	0.047μF 25V K
C0133	NCB31HK-152X	CHIP CAP.	1500pF 50V K
C0134	NCB31CK-683X	CHIP CAP.	0.068μF 16V K
C0136-37	NCB31CK-683X	CHIP CAP.	0.068μF 16V K
C0138	NCB31HK-152X	CHIP CAP.	1500pF 50V K
C0139	NCB31EK-473X	CHIP CAP.	0.047μF 25V K
C0140	NEH71CM-476X	E CAP.	47μF 16V M
C0151	NEH71CM-106X	E CAP.	10μF 16V M
C0152	NCB31EK-473X	CHIP CAP.	0.047μF 25V K
C0153	NEH71CM-476X	E CAP.	47μF 16V M
C0154	NCB31HK-152X	CHIP CAP.	1500pF 50V K
C0155	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0156	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C0157	NCB31HK-152X	CHIP CAP.	1500pF 50V K
C0158	NDC31HJ-391X	C CAP.	390pF 50V J
C0159	NEH71CM-106X	E CAP.	10μF 16V M
C0160	NCB31EK-473X	CHIP CAP.	0.047μF 25V K
C0161	NDC31HJ-331X	C CAP.	330pF 50V J
C0162-67	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C0174-75	NDC31HJ-3R0X	C CAP.	3.0pF 50V J
C0177	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0178	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C0179	NDC31HJ-391X	C CAP.	390pF 50V J
C0180	NCB31HK-152X	CHIP CAP.	1500pF 50V K
C0181	NCB31EK-473X	CHIP CAP.	0.047μF 25V K
C0182	NCB31HK-152X	CHIP CAP.	1500pF 50V K
C0183	NCB31CK-683X	CHIP CAP.	0.068μF 16V K
C0185-86	NCB31CK-683X	CHIP CAP.	0.068μF 16V K
C0187	NCB31HK-152X	CHIP CAP.	1500pF 50V K
C0188	NCB31EK-473X	CHIP CAP.	0.047μF 25V K
C0189	NEH71CM-476X	E CAP.	47μF 16V M
C0191	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0201	NEH71CM-476X	E CAP.	47μF 16V M
C0202-05	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0206	NEH71CM-476X	E CAP.	47μF 16V M
C0207-11	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0212-13	NDC31HJ-180X	C CAP.	18pF 50V J
C0214-17	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0218	NDC31HJ-561X	C CAP.	560pF 50V J
C0219	NEH71CM-476X	E CAP.	47μF 16V M
C0220-35	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0237-38	NEH71CM-106X	E CAP.	10μF 16V M
C0239-44	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0251	NDC31HJ-4R0X	C CAP.	4.0pF 50V J
C0252-53	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0254	NDC31HJ-120X	C CAP.	12pF 50V J
C0255	NDC31HJ-270X	C CAP.	27pF 50V J
C0256	NEH71CM-106X	E CAP.	10μF 16V M
C0261	NDC31HJ-4R0X	C CAP.	4.0pF 50V J
C0262-63	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0264	NDC31HJ-120X	C CAP.	12pF 50V J
C0265	NDC31HJ-270X	C CAP.	27pF 50V J
C0271	NDC31HJ-4R0X	C CAP.	4.0pF 50V J
C0272-73	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0274	NDC31HJ-120X	C CAP.	12pF 50V J
C0275	NDC31HJ-270X	C CAP.	27pF 50V J
C0301	NEH71CM-476X	E CAP.	47μF 16V M
C0302-03	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0402-03	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C0404	NDC31HJ-330X	C CAP.	33pF 50V J
COIL			
L0001-03	NQL092K-1R5X	CHIP INDUCTOR	
L0101	NQL034K-150X	CHIP INDUCTOR	
L0102-08	NQL092K-3R3X	CHIP INDUCTOR	
L0109	NQL034K-6R8X	CHIP INDUCTOR	

Symbol No.	Part No.	Part Name	Description
COIL			
L0151	NQL034K-150X	CHIP INDUCTOR	4.7μH K
L0159	NQL034K-6R8X	CHIP INDUCTOR	
L0201-03	NQL034K-100X	CHIP INDUCTOR	
L0204	QQL244K-4R7Z	COIL	
L0205-08	NQL034K-100X	CHIP INDUCTOR	
L0209-10	NQL092K-1R5X	CHIP INDUCTOR	
L0251	NQL092K-5R6X	CHIP INDUCTOR	
L0261	NQL092K-5R6X	CHIP INDUCTOR	
L0271	NQL092K-5R6X	CHIP INDUCTOR	
DIODE			
D0401	MA111-X	SI.DIODE	
TRANSISTOR			
Q0101-02	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q0151	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q0201	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q0251-52	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q0253	2SC2412K/QR/-X	SI. TRANSISTOR	
Q0261	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q0271	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q0301-03	2SC2412K/QR/-X	SI. TRANSISTOR	
IC			
IC0101	VPC3230D-QA-B3	I C	
IC0151	VPC3230D-QA-B3	I C	
IC0201	SAA4979H/V1	I C	
IC0202	OM4994H	I C	
IC0203-05	SAA4955HL/V1	I C	
IC0206-10	TC7W08F-X	I.C. (ECL-LOGIC)	
IC0211	TC7WHU04FU-X	I C	
IC0301	TDA9178T/N1-X	I C	
IC0401	S-80828ANNP-W	I C	
IC0402	TC7WH34FU-X	I C	
OTHERS			
CN0003	QGB1505K1-50	CONNECTOR	
LC0010-12	NQR0313-009X	EMI FILTER	
LC0013	NQR0313-004X	EMI FILTER	
LC0014-15	NQR0313-007X	EMI FILTER	
X0101	QAX0655-001Z	XTAL	
X0151	QAX0655-001Z	XTAL	
X0201	QAX0273-001Z	CRYSTAL	

AV32L5EIGY

PRINTED WIRING BOARD PARTS LIST

■ MAIN P.W. BOARD ASS'Y (SMF-1001A-U2)

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1004-05	NRSA63J-101X	MG R	100Ω 1/16W J
R1008-09	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1101	NRSA63J-102X	MG R	1kΩ 1/16W J
R1102	NRSA63J-181X	MG R	180Ω 1/16W J
R1103	NRSA63J-222X	MG R	2.2kΩ 1/16W J
R1104	NRSA63J-102X	MG R	1kΩ 1/16W J
R1105	NRSA63J-181X	MG R	180Ω 1/16W J
R1106	NRSA63J-270X	MG R	27Ω 1/16W J
R1107	NRSA63J-271X	MG R	270Ω 1/16W J
R1108	NRSA63J-102X	MG R	1kΩ 1/16W J
R1109-11	NRSA63J-101X	MG R	100Ω 1/16W J
R1151	NRSA63J-101X	MG R	100Ω 1/16W J
R1153	NRSA63J-101X	MG R	100Ω 1/16W J
R1155	NRSA63J-101X	MG R	100Ω 1/16W J
R1157	NRSA63J-101X	MG R	100Ω 1/16W J
R1159	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1161	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1301-02	NRSA63J-101X	MG R	100Ω 1/16W J
R1303	NRSA63J-273X	MG R	27kΩ 1/16W J
R1304	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1311	NRSA63J-331X	MG R	330Ω 1/16W J
R1312	NRSA63J-273X	MG R	27kΩ 1/16W J
R1313	NRSA63J-183X	MG R	18kΩ 1/16W J
R1314	NRSA63J-221X	MG R	220Ω 1/16W J
R1315-17	NRSA63J-101X	MG R	100Ω 1/16W J
R1318	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1319	NRSA63J-183X	MG R	18kΩ 1/16W J
R1321-22	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1401-02	NRSA63J-102X	MG R	1kΩ 1/16W J
R1403-04	NRSA63J-331X	MG R	330Ω 1/16W J
R1405-06	NRSA63J-102X	MG R	1kΩ 1/16W J
R1451	NRSA63J-821X	MG R	820Ω 1/16W J
R1454	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1455-56	NRSA63J-123X	MG R	12kΩ 1/16W J
R1457	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R1458	NRSA63J-123X	MG R	12kΩ 1/16W J
R1459	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1461	NRSA63J-123X	MG R	12kΩ 1/16W J
R1462	NRSA63J-153X	MG R	15kΩ 1/16W J
R1463	NRSA63J-124X	MG R	120kΩ 1/16W J
R1464	QRE141J-563Y	C R	56kΩ 1/4W J
R1465-66	NRSA63J-224X	MG R	220kΩ 1/16W J
R1467	NRSA63J-563X	MG R	56kΩ 1/16W J
R1468	NRSA63J-224X	MG R	220kΩ 1/16W J
R1469	NRSA63J-683X	MG R	68kΩ 1/16W J
R1470	NRSA63J-223X	MG R	22kΩ 1/16W J
R1471	NRSA63J-273X	MG R	27kΩ 1/16W J
R1472	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1473	NRSA63J-123X	MG R	12kΩ 1/16W J
R1474	NRSA63J-563X	MG R	56kΩ 1/16W J
R1475	NRSA63J-153X	MG R	15kΩ 1/16W J
R1476-78	NRSA63J-123X	MG R	12kΩ 1/16W J
R1479	NRSA63J-154X	MG R	150kΩ 1/16W J
R1480	NRSA63J-823X	MG R	82kΩ 1/16W J
R1481	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1482	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R1483	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1484	NRSA63J-473X	MG R	47kΩ 1/16W J
R1485	NRSA63J-123X	MG R	12kΩ 1/16W J
R1486	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1487	NRSA63J-333X	MG R	33kΩ 1/16W J
R1489	NRSA63J-333X	MG R	33kΩ 1/16W J
R1491	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R1492	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1501	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R1504	NRSA63J-102X	MG R	1kΩ 1/16W J

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1511	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R1512	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R1521	NRSA63J-223X	MG R	22kΩ 1/16W J
R1522	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1551	NRSA63J-100X	MG R	10Ω 1/16W J
R1552	NRSA63J-124X	MG R	120kΩ 1/16W J
R1553	NRSA63J-683X	MG R	68kΩ 1/16W J
R1554	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1555	NRSA63J-333X	MG R	33kΩ 1/16W J
R1556	NRSA63J-472X	MG R	4.7kΩ 1/16W J
R1557	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1558	NRSA63J-104X	MG R	100kΩ 1/16W J
R1559	NRSA63J-154X	MG R	150kΩ 1/16W J
R1560	NRSA63J-100X	MG R	10Ω 1/16W J
R1561	QRN143J-0R0X	C R	0.0Ω 1/4W J
R1562	NRSA63J-683X	MG R	68kΩ 1/16W J
R1563	NRSA63J-103X	MG R	10kΩ 1/16W J
R1564	NRSA63J-223X	MG R	22kΩ 1/16W J
R1565	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1591	NRSA63J-561X	MG R	560Ω 1/16W J
R1592	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R1601	NRSA63J-273X	MG R	27kΩ 1/16W J
R1602	NRSA63J-103X	MG R	10kΩ 1/16W J
R1603	NRSA63J-273X	MG R	27kΩ 1/16W J
R1604	NRSA63J-103X	MG R	10kΩ 1/16W J
R1605	NRSA63J-473X	MG R	47kΩ 1/16W J
R1606	NRSA63J-273X	MG R	27kΩ 1/16W J
R1609	NRSA63J-104X	MG R	100kΩ 1/16W J
R1610	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R1618	NRSA63J-333X	MG R	33kΩ 1/16W J
R1619	NRSA63J-104X	MG R	100kΩ 1/16W J
R1620	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1631	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1632-33	NRSA63J-103X	MG R	10kΩ 1/16W J
R1634	NRSA63J-183X	MG R	18kΩ 1/16W J
R1635	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1636	NRSA63J-103X	MG R	10kΩ 1/16W J
R1637	QK126J-2R2X	C R	2.2Ω 1/2W J
R1639	NRSA63J-561X	MG R	560Ω 1/16W J
R1642-43	NRSA63J-681X	MG R	680Ω 1/16W J
R1644-46	NRSA63J-104X	MG R	100kΩ 1/16W J
R1647	NRSA63J-183X	MG R	18kΩ 1/16W J
R1648	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1649	QK126J-2R2X	C R	2.2Ω 1/2W J
R1650-51	NRSA63J-103X	MG R	10kΩ 1/16W J
R1656	NRSA63J-683X	MG R	68kΩ 1/16W J
R1657	NRSA63J-333X	MG R	33kΩ 1/16W J
R1658	NRSA63J-683X	MG R	68kΩ 1/16W J
R1659	NRSA63J-393X	MG R	39kΩ 1/16W J
R1661	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1662-63	NRSA63J-394X	MG R	390kΩ 1/16W J
R1664-65	NRSA63J-103X	MG R	10kΩ 1/16W J
R1670-71	NRSA63J-273X	MG R	27kΩ 1/16W J
R1672	NRSA63J-223X	MG R	22kΩ 1/16W J
R1673	NRSA63J-273X	MG R	27kΩ 1/16W J
R1675	NRSA63J-103X	MG R	10kΩ 1/16W J
R1677-78	NRSA63J-103X	MG R	10kΩ 1/16W J
R1679	NRSA63J-223X	MG R	22kΩ 1/16W J
R1680	NRSA63J-273X	MG R	27kΩ 1/16W J
R1681	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1682	NRSA63J-273X	MG R	27kΩ 1/16W J
R1683	NRSA63J-103X	MG R	10kΩ 1/16W J
R1684-85	NRSA63J-393X	MG R	39kΩ 1/16W J
R1686	NRSA63J-683X	MG R	68kΩ 1/16W J
R1687	NRSA63J-393X	MG R	39kΩ 1/16W J
R1688	NRSA63J-273X	MG R	27kΩ 1/16W J

△ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R1689	NRSA63J-103X	MG R	10kΩ 1/16W J
R1690	NRSA63J-562X	MG R	5.6kΩ 1/16W J
R1693	NRSA63J-683X	MG R	68kΩ 1/16W J
R1694	NRSA63J-333X	MG R	33kΩ 1/16W J
R1695-96	NRSA63J-273X	MG R	27kΩ 1/16W J
R1699	NRSA63J-103X	MG R	10kΩ 1/16W J
R1701-02	NRSA63J-103X	MG R	10kΩ 1/16W J
R1703-04	NRSA63J-102X	MG R	1kΩ 1/16W J
R1705-08	NRSA63J-103X	MG R	10kΩ 1/16W J
R1711-12	NRSA63J-101X	MG R	100Ω 1/16W J
R1714-15	NRSA63J-102X	MG R	1kΩ 1/16W J
R1716-17	NRSA63J-OROX	MG R	0.0Ω 1/16W J
R1720-22	NRSA63J-102X	MG R	1kΩ 1/16W J
R1772-76	NRSA63J-221X	MG R	220Ω 1/16W J
R1951	QRK126J-220X	C R	22Ω 1/2W J

CAPACITOR

C1001	NCB31HK-222X	CHIP CAP.	2200pF 50V K
C1002	QETN1HM-106Z	E CAP.	10μF 50V M
C1004	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1005	QETN1CM-108Z	E CAP.	1000μF 16V M
C1006	NCB31HK-103X	C CAP.	0.01μF 50V K
C1007	QETN1HM-106Z	E CAP.	10μF 50V M
C1009	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1010	QETN1HM-106Z	E CAP.	10μF 50V M
C1101	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1102	QETN1HM-106Z	E CAP.	10μF 50V M
C1103	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1104	QETN1CM-107Z	E CAP.	100μF 16V M
C1105	QETN1HM-106Z	E CAP.	10μF 50V M
C1106-07	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1108	NDC31HJ-680X	C CAP.	680pF 50V J
C1111	NDC31HJ-820X	C CAP.	82pF 50V J
C1112-13	NDC31HJ-470X	C CAP.	47pF 50V J
C1114	NDC31HJ-180X	C CAP.	18pF 50V J
C1115-16	NCB31HK-472X	C CAP.	4700pF 50V K
C1117-18	NCB31HK-103X	C CAP.	0.01μF 50V K
C1119-20	NDC31HJ-2R0X	C CAP.	2.0pF 50V J
C1121	NCB31HK-103X	C CAP.	0.01μF 50V K
C1122-23	NDC31HJ-102X	C CAP.	1000pF 50V J
C1124-25	QETN1HM-106Z	E CAP.	10μF 50V M
C1126	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1127	QETN1HM-106Z	E CAP.	10μF 50V M
C1128	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1129	NCF31AZ-105X	C CAP.	1μF 10V Z
C1130	QETN1HM-106Z	E CAP.	10μF 50V M
C1151-54	NCF31AZ-105X	C CAP.	1μF 10V Z
C1155-56	NDC31HJ-102X	C CAP.	1000pF 50V J
C1301	QETN1CM-107Z	E CAP.	100μF 16V M
C1302-03	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1305-09	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1310	QETN1AM-228Z	E CAP.	2200μF 10V M
C1311	NCB31CK-683X	CHIP CAP.	0.068μF 16V K
C1312	NDC31HJ-221X	C CAP.	220pF 50V J
C1313-15	NCB31HK-223X	CHIP CAP.	0.022μF 50V K
C1316-18	NCB31HK-103X	C CAP.	0.01μF 50V K
C1320	QETN0JM-228Z	E CAP.	2200μF 6.3V M
C1321-23	NCB31HK-223X	CHIP CAP.	0.022μF 50V K
C1324	NDC31HJ-820X	C CAP.	82pF 50V J
C1351	QENC1EM-106Z	BP E CAP.	10μF 25V M
C1401	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1402	QETN1CM-107Z	E CAP.	100μF 16V M
C1403-04	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1453	NCB31HK-103X	C CAP.	0.01μF 50V K
C1454	NCB31EK-333X	CHIP CAP.	0.033μF 25V K
C1455-56	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1457	NCB31EK-333X	CHIP CAP.	0.033μF 25V K
C1458	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1471	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1472	NCB31HK-103X	C CAP.	0.01μF 50V K
C1473	NCB31CK-104X	CHIP CAP.	0.1μF 16V K

△ Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C1474	NCB31EK-333X	CHIP CAP.	0.033μF 25V K
C1475	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1491	NCB31EK-473X	CHIP CAP.	0.047μF 25V K
C1501-02	NDC31HJ-150X	C CAP.	150pF 50V J
C1521	NCB31HK-103X	C CAP.	0.01μF 50V K
C1551-52	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C1553	QETN1EM-476Z	E CAP.	47μF 25V M
C1554-55	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C1560	QETN1CM-107Z	E CAP.	100μF 16V M
C1561	NDC31HJ-561X	C CAP.	560pF 50V J
C1562	QETN1HM-105Z	E CAP.	1μF 50V M
C1564	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1591	NDC31HJ-471X	C CAP.	470pF 50V J
C1606-07	QETN1CM-227Z	E CAP.	220μF 16V M
C1613	NCF21CZ-105X	C CAP.	1μF 16V Z
C1614	QETN1EM-476Z	E CAP.	47μF 25V M

C1615	NCF21CZ-105X	C CAP.	1μF 16V Z
C1616	QETN1HM-105Z	E CAP.	1μF 50V M
C1618	QETN1HM-105Z	E CAP.	1μF 50V M
C1626	QETN1EM-476Z	E CAP.	47μF 25V M
C1628	QETN1HM-107Z	E CAP.	100μF 50V M
C1629	QETN1HM-106Z	E CAP.	10μF 50V M
C1630	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1632	NCF21HZ-224X	C CAP.	0.22μF 50V Z

C1634	QETN1HM-228	E CAP.	2200μF 50V M
C1638-39	QETN1HM-105Z	E CAP.	1μF 50V M
C1641-42	NCF21HZ-224X	C CAP.	0.22μF 50V Z
C1646-47	NCB31HK-103X	C CAP.	0.01μF 50V K
C1648-49	QETN1VM-108	E CAP.	1000μF 35V M
C1657	NCB31HK-103X	C CAP.	0.01μF 50V K
C1658	NDC31HJ-100X	C CAP.	10pF 50V J
C1661-63	NCB31CK-104X	CHIP CAP.	0.1μF 16V K

C1664-65	NCB31HK-222X	CHIP CAP.	2200pF 50V K
C1666-67	NCF31AZ-105X	C CAP.	1μF 10V Z
C1671	QETN1EM-476Z	E CAP.	47μF 25V M
C1672	QETN1HM-226Z	E CAP.	22μF 50V M
C1673-74	NCF31AZ-105X	C CAP.	1μF 10V Z
C1675	QETN1EM-476Z	E CAP.	47μF 25V M
C1678-79	NDC31HJ-100X	C CAP.	10pF 50V J
C1680	NCF31AZ-105X	C CAP.	1μF 10V Z

C1681	NCB31HK-332X	CHIP CAP.	3300pF 50V K
C1682	NCB31EK-333X	CHIP CAP.	0.033μF 25V K
C1683	QETN1EM-476Z	E CAP.	47μF 25V M
C1684	NCB31HK-332X	CHIP CAP.	3300pF 50V K
C1685	NCB31EK-333X	CHIP CAP.	0.033μF 25V K
C1686	NCF31AZ-105X	C CAP.	1μF 10V Z
C1687	QETN1HM-106Z	E CAP.	10μF 50V M
C1688	QETN1EM-476Z	E CAP.	47μF 25V M

C1689	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1691	NCB31EK-393X	CHIP CAP.	0.039μF 25V K
C1692	NDC31HJ-100X	C CAP.	10pF 50V J
C1693-94	QETN1EM-476Z	E CAP.	47μF 25V M
C1695	NCF31AZ-105X	C CAP.	1μF 10V Z
C1696	NCB31EK-393X	CHIP CAP.	0.039μF 25V K
C1697	NCB31HK-103X	C CAP.	0.01μF 50V K
C1698	NCF31AZ-105X	C CAP.	1μF 10V Z

C1699	NCB31HK-103X	C CAP.	0.01μF 50V K
C1701	QETN1HM-106Z	E CAP.	10μF 50V M
C1702	NCB31CK-563X	CHIP CAP.	0.056μF 16V K
C1951	QETN1CM-477Z	E CAP.	470μF 16V M
C1952-53	NCB31CK-104X	CHIP CAP.	0.1μF 16V K
C1954	QETN1AM-477Z	E CAP.	470μF 10V M
C1955	QETN1AM-227Z	E CAP.	220μF 10V M
C1956	QETN1AM-107Z	E CAP.	100μF 10V M

COIL

L1001	QQL244K-270Z	PEAKING COIL	
L1002-03	QQL244K-100Z	COIL	10μH K
L1004	NQL092K-100X	INDUCTOR	
L1101	QRN143J-OROX	C R	0.0Ω 1/4W J
L1102	QQL244K-4R7Z	COIL	4.7μH K

△ Symbol No.	Part No.	Part Name	Description
COIL			
L1111	QQL244K-220Z	PEAKING COIL	18μH K
L1112	QQL244K-180Z	COIL	
L1301-02	NQL092K-1R5X	CHIP INDUCTOR	
L1951	QQL26AM-5R6Z	CHOKE COIL	
DIODE			
D1317-18	MA111-X	SI. DIODE	
D1471-74	MA111-X	SI. DIODE	
D1521	MA111-X	SI. DIODE	
D1591	MA111-X	SI. DIODE	
D1592	MA3051/M/-X	ZENER DIODE	
D1602	MA111-X	SI. DIODE	
D1610-11	MA111-X	SI. DIODE	
D1614-15	MA111-X	SI. DIODE	
D1617	MA111-X	SI. DIODE	
D1619-20	MA3330/L/-X	ZENER DIODE	
D1626-27	MA3150/M/-X	ZENER DIODE	
D1771-74	MA3056/M/-X	ZENER DIODE	
D1951	1SR35-400A-T5	SI. DIODE	
D1981-82	MA111-X	SI. DIODE	
TRANSISTOR			
Q1101-02	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1471-72	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1561	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1562	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1601-02	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1604-05	DTC124EKA-X	DIGI. TRANSISTOR	
Q1606	2SC2412K/QR/-X	SI. TRANSISTOR	
Q1607	DTA124EKA-X	DIGI. TRANSISTOR	
Q1615	2SA1037AK/QR/-X	SI. TRANSISTOR	
Q1616-17	DTC323TK-X	DIGI. TRANSISTOR	
IC			
IC1101	MSP3415DQGB3GHX	I.C. (MONO-ANA)	
IC1301	SDA9380	I C	
IC1402	BA10324AF-XE	I C	
IC1471	UPC358G2-XE	I.C. (MONO-ANA)	
IC1551	LA6515	I.C. (MONO-ANA)	
IC1601	TA8246AH	I.C. (HYBRID)	
IC1604	BA4558F-X	I.C. (MONO-ANA)	
IC1661	BD3869F-X	IC	
IC1662	BA4558F-X	I.C. (MONO-ANA)	
IC1663	NJM2150AM-X	I.C. (MONO-ANA)	
IC1665	BA10324AF-XE	I C	
IC1701	JLC1562BF-X	I.C. (DIGI-MOS)	
IC1951	BA09T	I.C. (MONO-ANA)	
IC1952	BA08T	I.C. (MONO-ANA)	
OTHERS			
TU1001	QAU0188-003	TUNER	
LC1102	NQR0431-001X	EMI FILTER	
LC1301-03	NQR0431-001X	EMI FILTER	
J1001	QNN0296-001	PIN JACK	
K1001	NQR0389-003X	FERRITE BEADS	
K1101-02	NQR0389-003X	FERRITE BEADS	
K1301	NQR0413-003X	CHIP BEADS	
K1601-02	CE42681-001Y	BEADS CORE	
X1101	CE42546-001Z	CRYSTAL	1μF 16V Z 100Ω 1/16W J
X1501	QAX0549-001Z	CRYSTAL	
Y1612-13	NCF21CZ-105X	C CAP.	
Y1677-78	NRSA63J-101X	MG R	

■ POWER & DEF. P.W. BOARD ASS'Y (SMF-2002A-U2)

Refer to PARTS LIST in page 38 for this P.W. board.

■ CRT SOCKET P.W. BOARD ASS'Y (SMF-3001A-U2)

Refer to PARTS LIST in page 40 for this P.W. board.

■ FRONT CONTROL P.W. BOARD ASS'Y (SMF-8008A-U2)

Refer to PARTS LIST in page 41 for this P.W. board.

■ SIDE CONTROL P.W. BOARD ASS'Y (SMF-8108A-U2)

Refer to PARTS LIST in page 41 for this P.W. board.

■ MICON P.W. BOARD ASS'Y (SMF0M001A-U2)

Refer to PARTS LIST in page 42 for this P.W. board.

■ AV SW P.W. BOARD ASS'Y (SMF0S001A-U2)

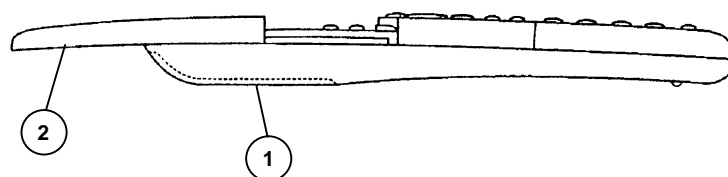
Refer to PARTS LIST in page 43 for this P.W. board.

■ 100Hz P.W. BOARD ASS'Y (SMF0Z003A-U2)

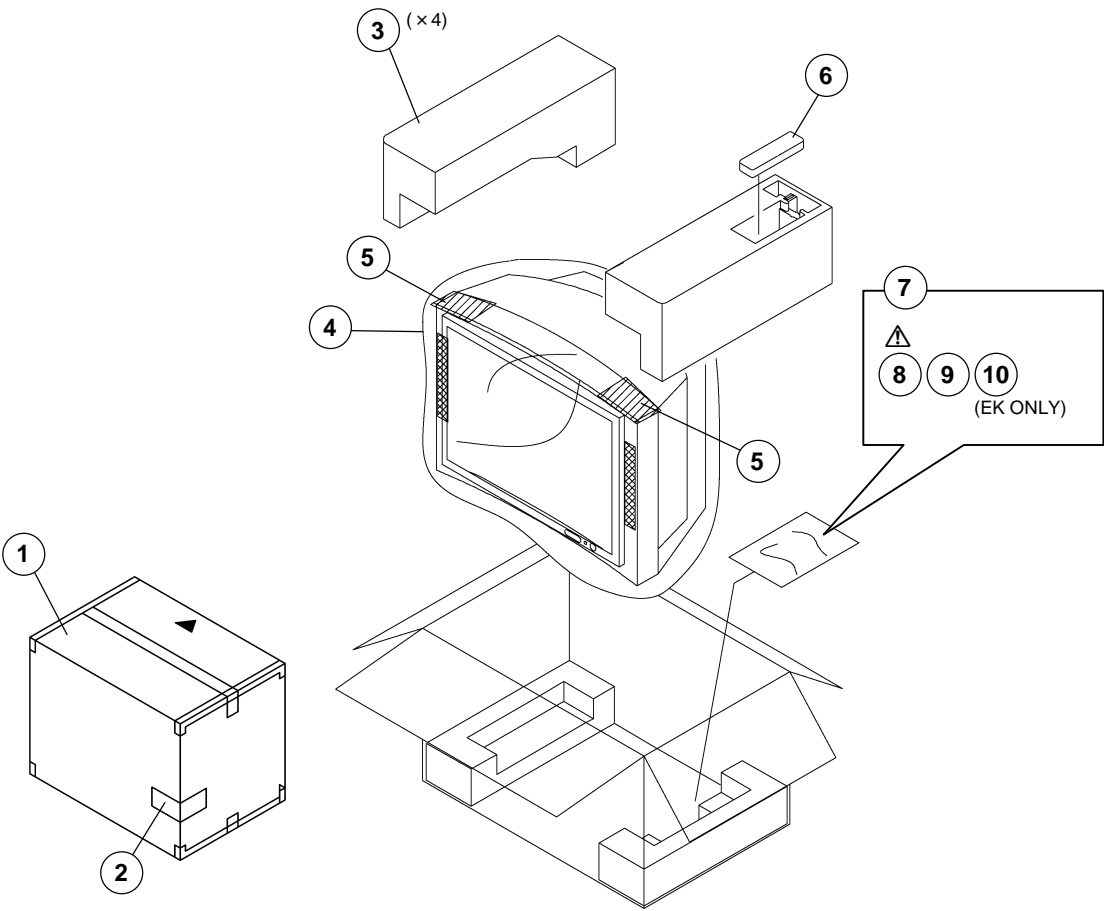
Refer to PARTS LIST in page 44 for this P.W. board.

REMOTE CONTROL UNIT PARTS LIST (RM-C56-2C)




△ Ref.No.	Part No.	Part Name	Description
1	2AA030740	BATTERY COVER	
2	2AA030734	SLIDE COVER	



PACKING



PACKING PARTS LIST

 Ref.No.	Part No.	Part Name	Description
AV32L5EKG			
1	AEM1002-B71-E	PACKING CASE	
2	AEM1052-021-E	EURO LABEL	
3	LC10859-002A-U	CUSHION ASSY	4pcs in 1set
4	AEM1047-002-E	FORM BAG	
5	AEM4091-001A-U	PROTECT SHEET	2pcs in 1set
6	RM-C56-2C	REMOCON UNIT	
7	AEM3021-002-E	DOCUMENT BAG	
 8	LCT0909-001A-U	INST BOOK	
9	BT-54013-1E	WARRANTY CARD	
10	AEM3148-001-E	REG SHEET	
AV32L5EIG			
1	AEM1002-B71-E	PACKING CASE	
2	AEM1052-020-E	EURO LABEL	
3	LC10859-002A-U	CUSHION ASSY	4pcs in 1set
4	AEM1047-002-E	FORM BAG	
5	AEM4091-001A-U	PROTECT SHEET	2pcs in 1set
6	RM-C56-2C	REMOCON UNIT	
7	AEM3021-002-E	DOCUMENT BAG	
 8	LCT0910-001A-U	INST BOOK	
9	BT-54013-1E	WARRANTY CARD	

Memo
